

## **APPENDIX C**

### **FIELD DOCUMENTATION (SAMPLING FORMS AND GROUNDWATER ELEVATION FORMS)**

# Daily Activity Report (DAR)



Project Name:

JERVIS WEBB

Page ( of )

Project No./Task Code:

J163007200

Date: 3/9/15

Description of Work:

SUMW INSTALLATION; SOIL & SOIL GAS SAMPLING

Visitors / Subcontractors:

KAREN JURET / GDT

Weather:

## Description of Field Activities

0615 ONSITE @ SMA STAGING / STAGING AREA - GDT CREW ARRIVES

0635 COMPLETE SUPPLY TRAILING STARTING; MOBILIZE EQUIP TO 5030 FIRESTONE BLVD.

0800 TOWNSHIP ARRIVES - OPEN GATE; SET UP ON JW-SB/SG11  
COLLECT SOIL SAMPLES @ 0.5, 2, 5, 15, 25, 35' INCLUDING DUPS @ 0.5 & 5'

CONSTRUCT TEMP SUMW W/ COMPLETIONS @ 5, 15, 25, 35' FBGS

1010 MOVE RIG TO JW-SB/SG19, COLLECT SOIL SAMPLES AT 0.5, 2, 5, 15, 25, 35' FBGS. CONSTRUCT TEMP SUMW W/ COMPLETIONS AT 5, 15, 25, 35' FBGS

1145-1245 GDT LUNCH BREAK

1245 MOVE RIG TO JW-SB/SG19, COLLECT SOIL SAMPLES AT 0.5, 2, 5, 15, 25, 35' FBGS. CONSTRUCT TEMP SUMW W/ COMPLETIONS 5, 15, 25, 35' FBGS

KAREN JURET (EPA RSM) ONSITE - INSPECT TEMP SUMW, JW-SB/SG11 & 19; INSPECT PROPOSED SUB-SLAB LOCATIONS... EPA DECIDES TO DEFER SUB-SLAB SAMPLING UNTIL INITIAL ROUND OF SOIL GAS SAMPLES HAVE BEEN ANALYZED AND EVALUATED

1220 MOVE EQUIP OFFSITE TO SMA STAGING AREA, PREPARE SAMPLES FOR SHIPMENT, DELIVER TO FEDEX

Prepared by:

PJPHILLIPS

Signature:

# Daily Activity Report (DAR)



Project Name:

JERVIS WEBB

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Project No./Task Code:

J163007 Z00

Date: 3/10/15

Description of Work:

SVMW INSTALLATION; SOIL & SOIL GAS SAMPLING

Visitors / Subcontractors:

Weather:

## Description of Field Activities

PROCESS: SAMPLE DESIGNATION

DRILL AND DRIVE SOIL BORING FIVE GEOTECH SAMPLES  
COLLECTION TO 60' BGS; COLLECT BULK & SLEEVE  
GEOTECH SAMPLES AT 15, 35, 45 & 60' BGS

PREPARE ENVIRONMENTAL SAMPLES FROM JW-SB/SG16  
FOR SHIPMENT, PREPARE GEOTECHNICAL SAMPLES FOR  
SHIPMENT [HOLD GEOTECH SAMPLES UNTIL CONTRACT  
HAS BEEN SIGNED]

DESTROY GEOTECH BOREHOLE @ JW-SB/SG17 LOCATION

Prepared by:

PJPHILLIPS

Signature:

# Daily Activity Report (DAR)



Project Name: JERVIS WEBB Page 1 of 2

Project No./Task Code: J163007200 Date: 3/10/15

Description of Work: 3VMW INSTALLATION; SOIL & SOIL GAS SAMPLING

Visitors / Subcontractors: GDT

Weather:

## Description of Field Activities

0720 GDT, ED G. ONSITE AT SAID STAGING AREA, CONDUCT TRAILGATE SAFETY MTG.

0750 MOVE TO 5030 FIRESTONE, TENANT MOVES CARS FOR ACCESS TO DRILLING LOCATIONS

0800 LEFT MESSAGE W/GDT FOR JOINING TO CALL RE: CONCRETE CORE CLEAN SCHEDULE

0900 CALLS TO CHARLONE WHITE & RICHARD VILLAFINIA (BUDFINS) TO CONFIRM C<sub>6</sub> SAMPLE ANALYSIS AND LAB COURTESY SERVICE ... AGREES TO CALL BUDFINS TOMORROW W/CONFIRM REGARDING PICKUP TIME & LOCATION

\* RESPOND TO CHEMTECH EMAIL RE: M495Q0 (MEALS & Hg) SAMPLE WAS DELIVERED TO LAB BUT NOT INCL. ON C<sub>10</sub>-C ... INSTRUCTED LABS TO ANALYZE SAMPLE PER PROCEDURES, REVISED GCL WILL BE SUBMITTED

0935 MOBILIZE EQUIP TO JW-SB27 COLLECT SOIL SAMPLES FOR C<sub>6</sub> ANALYSIS AT 20' & 30' BGS, DESTROY BOREHOLE W/ BENTONITE CHIPS ... PATCH GS W/ CONCRETE

1010 MOVE EQUIP TO JW-SB/SG 16, COLLECT SOIL SAMPLES @ 0.5, 2, 5, 15, 25' & 35' BGS. CONSTRUCT TEMP SUMM W/ COMPLECTIONS AT 5, 15, 25' & 35' BGS

1145 - 1245 GDT LUNCH BREAK

1300 MOVE EQUIP TO JW-SB/SG 17 ... TELECALL W/ROY DOWNES (TARBEZ CONSULTANTS) TO DISCUSS GEOTECH SAMPLES AND SAMPLE VOLUMES, CONTRACT

Prepared by: PJPHILIPS

Signature:



# Daily Activity Report (DAR)



Project Name:

JERVIS WEBB

Page

2 of 2

Project No./Task Code:

J163007 200

Date:

3/11/15

Description of Work:

SVMW INSTALLATION; SOIL & SOIL GAS SAMPLING

Visitors / Subcontractors:

Weather:

## Description of Field Activities

COLLECTED DURING THIS PHASE OF SAMPLING

1230 MOVE RIG TO JW-SB/S610, CUT CONCRETE CORE,  
HAND AUGER TO 5' BGS, COMPLETE BORING;  
COLLECT ENV. SAMPLES @ 0.5, 2, 5, 15, 25, 35'  
BGS; INSTALL TEMP SVMW w/ COMPLETIONS AT  
5, 15, 25 & 35' BGS

1400 COURIER FROM EUROFINIS (CAL SCIENCE) ONSITE TO  
PICK UP C<sub>6</sub> SAMPLES FROM JW-SB27

PREPARE C-O-C, PACK SAMPLES FOR SHIPMENT,  
TRANSFER SAMPLES TO FED EX

1545 RELINQUISH SAMPLES TO FED EX

Prepared by:

PJ PHILIPS

Signature:

## Daily Activity Report (DAR)



Project Name:

JERVIS WEBB

Page 1 of 2

Project No./Task Code:

J163007 Z00

Date: 3/11/15

Description of Work:

SUMW INSTALLATION; SOIL &amp; SOIL GAS SAMPLING

Visitors / Subcontractors:

GDT

Weather:

## Description of Field Activities

0755 GDT, GILBANE ONSITE, COMPLETE TAILGATE SET/UP, AND REV SCH. FOR THE DAY

0810 TVL TO FED EX TO SAMP VOC, SVOC & PCB SAMPLES FROM JW-SB/SG 16

0925 TVL TO RELIABLE STEEL TO INSPECT LOCATIONS W/ JEFF PALMER; POTENTIAL FOR SATURDAY WORK DISCUSSED, AGREED TO UPDATE MR. PALMER ON FRIDAY REGARDING ONSITE WORK SCH. AT RELIABLE STEEL

1015 PJP ONSITE AT 5030 FIRESTONE BLVD, GDT HAS COMPLETED THE ENV. BORING AT JW-SB/SG 17; COLLECTED SAMPLES AT 0.5, 2, 5, 15, 25, & 35' BGS AND INSTALLED A TEMP SUMW W/ COMPLECTIONS AT 5, 15, 25 & 35' BGS

MOVE RIG TO JW SB/SG 18, COLLECT ENV. SAMPLES AT 0.5, 2, 5, 15, 25 & 35' BGS; CONST. A TEMP SUMW W/ COMPLECTIONS @ 5, 15, 25, & 35' BGS

1130 - 1230 GDT LUNCH BREAK

CONF. CALL W/ EDG. & DON G.; DISCUSS NEXT AND UPCOMING PORTIONS OF SCHEDULE INCLUDING MAX OF INT WELL DESTRUCTIONS @ COOPER DRUM. EXPECTATION WILL BE TO HAVE REMAINING JW 14 S DISG. COMPLETED BY NEXT FRI OR EARLY THE FOLLOWING WEEK... PJP TO CONTACT H&P TO DISCUSS MOBILIZATION OF THEIR EQUIP LATE NEXT WEEK TO COMPLETE THE PURGE VOLUME TESTING... DON TO CONFIRM W/ KAREN THAT SUB-SLAB SAMPLING WILL NOT BE

Prepared by:

PJPHILIPS

Signature:

## Daily Activity Report (DAR)



Project Name:

JERVIS WEBB

Page 1 of 1

Project No./Task Code:

J163007200

Date: 3/12/15

Description of Work:

SUMW INSTALLATION; SOIL &amp; SOIL GAS SAMPLING

Visitors / Subcontractors:

GDT

Weather:

## Description of Field Activities

0710 PJP ON SITE, PREPARE SAMPLING EQUIP; GDT AND EDG ARRIVE; COMPLETE TMLGATE SAFETY MTG.

0930 MOVE EQUIP TO 5030 FIRESTONE, SET UP ON JW-SB/SG07; PJP TO MAKE ICE RUN  
 DRILL: SAMPLE AT 0.5, 2.5, 15, 25, AND 35' BGS. INSTALL TEMP. SUMW AT 5, 15, 25' AND 35' BGS

1010 MOVE EQUIP TO JW SB/SG08; COMPLETE HAND RIGER TO 5' BGS. DRILL & COLLECT SOIL SAMPLES AT 0.5, 2, 5, 15, 25, & 35' BGS. CONST. TEMP SUMW W/ COMPLETIONS @ 5, 15, 25 & 35' BGS

1130-1230 GDT LUNCH. CALL TO RICHARD @ CALSCIENCE TO SCH. CARRIETZ PICKUP FOR C<sub>6</sub> SAMPLES TOMORROW BTWN 10:00 - 1:00 (JW-SB/SG13 SAMPLES)

PLACE ORDER FOR AN ADDITIONAL 100 CORELINE SAMPLERS PER ED'S REQUEST

1230 MOVE EQUIP TO JW SB/SG13. DRILL & SAMPLE TO 0.5, 2, 5, 15, 25 & 35' BGS. INSTALL A TEMP. SUMW W/ COMPLETIONS @ 5, 15, 25 & 35' BGS

1445 PREPARE C-O-Cs AND SAMPLES FOR SHIPMENT. TRANSFER SAMPLES TO FEDEX, RELINQUISH SAMPLES TO FEDEX

Prepared by:

PJP/PHILIPS

Signature:





## Daily Activity Report (DAR)



Project Name:

JERVIS WEBB

Page 1 of 1

Project No./Task Code:

J163007 Z00

Date: 3/13/15

Description of Work:

SVMW INSTALLATION; SOIL &amp; SOIL GAS SAMPLING

Visitors / Subcontractors:

GDT

Weather:

## Description of Field Activities

0745 TREGATE SAFETY MTG @ SAIA STAGING AREA W/ GDT, LOAD SAMPLING EQUIP. DISCUSS DAILY SCHEDULE; MOVE EQUIP TO 5030 FIRESTONE BLVD

0830 GHSITE AT JW SB/SG 14, DRILL AND SAMPLE AT 0.5, 2, 5, 15, 25 & 35' BGS. [ENCOUNTER UNDERGROUND UTILITY (PIPE) AT APPROX 2' BGS AT INITIAL LOCATION AND APPROX 18" EAST OF INITIAL LOCATION, MOVE APPROXIMATELY 2' NORTH OF SECOND LOCATION]

INSTALL TEMP SNAWS W/ COMPLETIONS AT 5, 15, 25 & 35' BGS

1030 CAL TO H&P TO DISCUSS SOIL GAS SAMPLING SCH., DECIDE TO START PURGE VOLUME TESTING ON 3/23/15 SO MARCEL CAN COMPLETE THE ENTIRE SAMPLING EVENT

1045 CAL TO GDT TO SCH. MAXOX INJECTION WELL DESTRUCTION/ PRESSURE GRAB FOR NEXT THURS/FRIDAY APPROX 4/20 (COOPER DRUM)

MOVE RIG TO JW SB/SG 15, DRILL & SAMPLE AT 0.5, 2, 5, 15, 25 & 35' BGS. INSTALL TEMP SNAWS W/ COMPLETIONS AT 5, 15, 25 & 35'

1130 CORRIDOR FROM CAL SCIENCE / EUROFIN PICKED UP C<sub>6</sub> SAMPLES COLLECTED YESTERDAY FROM JW SB/SG 13

1220 PREPARE SAMPLES FOR SHIPMENT, TRANSPORT TO FEDEX AND RELINQUISH CUSTODY

Prepared by:

PJPHILIPS

Signature:



## Daily Activity Report (DAR)

Gilbane

Project Name:

JERVIS WEBB

Page 1 of 1

Project No./Task Code:

J163007200

Date: 3/16/15

Description of Work:

SUMW INSTALLATION, SOIL &amp; SOIL GAS SAMPLING

Visitors / Subcontractors:

GDT

Weather:

## Description of Field Activities

0730 ONSITE @ SMA STAGING AREA, PREPARE SAMPLING EQUIP AND CONDUCT TAILGATE SAFETY MTG.

TVL TO RELIABLE STEEL TO REMIND THEM THAT WE WOULD BE MOVING ONSITE BY MID-MORNING TODAY, GET ICE

0830 SET EQUIP UP ON JW SB/SG 12, COMPLETE AND ANCHOR TO 5' BGS; DRILL AND COLLECT SOIL SAMPLES AT 0.5, 2.5, 15, 25, 35' BGS, CONSTRUCT TEMP SUMW w/COMPLECTIONS AT 5, 15, 25, 35' BGS

1030 MOVE EQUIPMENT 9361 ROAD AVE (RELIABLE STEEL); REVIEW DRILLING LOCATIONS w/ OWNER, SET EQUIP. UP AT JW SB/SG 26, HANG ANCHORS TO 5' BGS; DRILL & COLLECT SAMPLES @ 0.2, 5, 15, 25, 35', SET TEMP SUMW w/COMPS @ 5, 15, 25, 35'

1200-1300 GDT LUNCH BREAK

1300 MOVE EQUIP TO JW SB/SG 25; DRILL & SAMPLE TO 0.2, 5, 25, 35' BGS.

1410 INSALL TEMP SUMW w/COMPLECTIONS AT 5, 15, 25' AND 25' BGS, PREPARE SAMPLES FOR SHIPMENT

1515 TRANSPORT SAMPLES TO FEDEX, DEUNGUISH

Prepared by:

PJPHILLIPS

Signature:



# Daily Activity Report (DAR)



Project Name: JERNIS WEBB  
 Project No./Task Code: J163007 Z00  
 Page 1 of 1  
 Date: 3/17/15

Description of Work: SYMW INSTALLATION, SOIL & SOIL GAS SAMPLING

Visitors / Subcontractors: GDT

Weather:

## Description of Field Activities

0205 ONSITE AT SAIA STAGING AREA, LOAD SAMPLING SUPPLIES, CONDUCT TRILGATE SAFETY MTG, PJP TO PURCHASE ICE, GDT MOBILIZE TO RELIABLE STEEL

0745 CK W/ RECEPTIONIST AT RELIABLE STEEL; JEFF PALMERZ NOT EXPECTED ONSITE UNTIL MIDMORNING

MAKE RL TO JW SB/SG 24, DRILL & COLLECT SOIL SAMPLES AT 0.2, 5', 15', 25' & 35' BGS

0910 INSTALL TEMP SYMW W/ COMPLETIONS AT 5, 15, 25' & 35' BGS

0950 MAKE RL TO JW SB/SG 21; DRILL & COLLECT SOIL SAMPLES AT 0.5, 2, 5, 15, 25' & 35' BGS.

1040 INSTALL TEMPERATURE SYMW W/ COMPLETIONS AT 5, 15, 25' & 35' BGS

1145 PREPARE SAMPLES FOR SHIPMENT, COMPLETE DOCUMENTATION

1400 TRANSFER SAMPLES TO FLD EX

Prepared by: PJP/PHILIPS

Signature:

## Daily Activity Report (DAR)

**Gilbane**

Project Name:

JERVIS WEBB

Page 1 of 1

Project No./Task Code:

J163007 Z00

Date:

3/18/15

Description of Work:

SUMM INSTALLATION; SOIL &amp; SOIL GAS SAMPLING

Visitors / Subcontractors:

GDT

Weather:

## Description of Field Activities

0710 ONSITE AT SATH W/GDT, COMPLETE TAILGATE SAFETY MTG;  
LOAD EQUIP, PREP TEMP BLANKS

0740 TUL TO RELIABLE STEEL, SET EQUIP UP AT JW SB/SC20,  
COMPLETE HAND AUGER TO 5', DRILL & COLLECT SOIL  
SAMPLES AT 0.5', 2', 5', 15', 25' & 35' BGS

0825 INSTALL TEMP SUMM W/COMPLETIONS AT 3', 15', 25'  
AND 35' BGS

1015 MOVE EQUIP TO JW SB/SC22; COMPLETE HAND AUGER  
TO 5', DRILL & COLLECT SOIL SAMPLES AT 0.2', 5', 15',  
25' & 35' BGS

1155 INSTALL TEMP SUMM W/COMPLETIONS AT 5', 15', 25' & 35'  
BGS

1235 GDT LUNCH, PJP PREP SAMPLE DOCUMENTATION;  
PACK SAMPLES

1410 TRANSFER SAMPLES TO FED EX

1440 RELINQUISH SAMPLES TO FED EX, TUL TO LA4 TO  
GET NEW RENTAL VEHICLE

Prepared by:

PJP/PHILIPS

Signature:





# Daily Activity Report (DAR)



Project Name:

JERVIS WEBB

Page 1 of 1

Project No./Task Code:

J163007200

Date: 3/19/15

Description of Work:

ENVIRONMENTAL INSTALLATION, SOIL & SOIL GAS SAMPLING

Visitors / Subcontractors:

GDT

Weather:

## Description of Field Activities

0715 PJP/GDT ON SITE; MOBILIZE TO COOPER DRUM FOR WEBB DESTRUCTION ACTIVITIES - SPENT TIME W/ JERVIS WEBB

0900 TELECON W/ SUZIE (H&P) - AGREE TO REFERENCE ALL RESULTS AND COMMUNICATIONS W/ JOB # FROM CMIC (J1630072) AND ADD 'JERVIS WEBB' TO THE END

- WILL MEET MATERIAL AT SAIA @ 0900 MONDAY 3/23/15
- CONFIRM THAT DUES FOR EPA R9 WILL BE COLLECTED IN SOMMA CANISTERS (6L) SUPPLIED BY R9 ... H&P TO SUPPLY TEDLAR BAGS FOR DUP SAMPLING
- SUZIE WILL SEND EMAILS OF DAILY REPORTING DOCS, WELL DESIGN; H&P CERTS FOR PERSONNEL

1030 TELECON W/ RAY BOWMAN @ TABOR CONSULTANTS TO DISCUSS SAMPLES SUBMITTED; PERMEABILITY TEST METHOD(S) FOR DISTURBED & UNDISTURBED SAMPLES

1200 GDT/PJP MOBILIZE TO RELIABLE STEEL, SET EQUIPMENT UP AT JWSB/SL23, COMPLETE HAND AUGER TO 5', DRILL AND COLLECT SOIL SAMPLES AT 0.5', 2', 5', 15', 25' AND 35' BGS, DRILL & INSTALL TEMP SUMP W/ COMPLECTIONS AT 5', 15', 25' & 35' BGS

1410 PREPARE SAMPLES AND TRANSFER DOCUMENTS, TRANSPORT SAMPLES TO FED EX

1530 RELINQUISH SAMPLES TO FED EX

Prepared by:

PJP/PHILIPS

Signature:



## Daily Activity Report (DAR)



Project Name:

JERVIS WEBB

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1 of 1

Project No./Task Code:

J163007 Z00

Date:

3/23/15

Description of Work:

SWMW INSTALLATION, SOIL &amp; SOIL GAS SAMPLING

Visitors / Subcontractors:

GDT/H&amp;P

Weather:

## Description of Field Activities

0715 PPOSITE AT SMA, WAIT FOR H&P MOBILE LAB, REVIEW SITE SAFETY & HAZARD PLAN, WORK PLAN & COMPLETE TRAILGATE SAFETY MTG; DISCUSS PURGE VOLUME TESTS AND LOCATIONS SELECTED FOR PURGE VOLUME TESTS

0805 TVL TO 5030 FIRESTONE W/H&P, INSPECT SITE, MEET W/ TENANT, DISCUSS WORK PROGRESSION FOR THE WEEK AND VERIFY SWMW CONSTRUCTION DETAILS

0856 MOBILIZE LAB AND SUPPORT TRUCK TO 5030 FIRESTONE, SET UP MOBILE LAB AND INITIATE PURGE VOLUME TESTING AT JW SB/SG 16

PJP & EG, OFF SITE, MARK AND EVALUATE POTENTIAL TRAFFIC & U.G. UTILITIES AT PROPOSED CPT LOCATIONS 4 THRU 8 AND 4A THRU 8A

1145 H&P COMPLETES PURGE VOLUME TEST ON 5' VAPOR PROBE, IN PROCESS OF COMPLETING PURGE VOLUME TEST ON 15' VAPOR PROBE

1230 H&P PROVIDES RESULTS OF 5'-PURGE VOL. TEST

1430 MULTIPLE ATTEMPTS TO COMPLETE 15' PURGE VOL TEST FAIL DUE TO SUBSURFACE MOISTURE, MOVE TO 25' PURGE VOLUME TEST

1630 25 FOOT PURGE VOL. TEST COMPLETE, DECISION MADE TO MOVE 15 FOOT PURGE VOL TEST TO JW SB/SG 18

Prepared by:

PJPHILLIPS

Signature:

# Daily Activity Report (DAR)



Project Name: **JERVIS WEBB** Page **1** of **1**  
 Project No./Task Code: **J163007200** Date: **3/24/15**

Description of Work: **3VMW INSTALLATION; SOIL & SOIL GAS SAMPLING**

Visitors / Subcontractors: **H&P**

Weather:

## Description of Field Activities

**0800** ONSITE W/ H&P, COMPLETE TAIL GATE SAFETY MK.,  
 RUN STANDARD CHECKS IN MOBILE LAB

**0845** START PURGE VOLUME AT 35' IN JW SB/SG 16

**0920** EXCEEDINGLY LARGE PROpane IT AT 35' IN JW SB/SG 16  
 PURGE VOL. TEST; DECISION MADE TO MOVE 35-FOOT  
 PURGE VOL TEST TO JW SB/SG 18 AS WELL TO ELIMINATE  
 PROpane SPIKE DOCUMENTED IN JW SB/SG 16

**1100** DURING THE 15-FOOT PURGE VOL TEST AT JW SB/SG 18 THE VACUUM  
 PUMP STARTED TO PRODUCE WATER. SAMPLES IMMEDIATELY  
 SHUT OFF PUMP AND STOPPED TEST. DECISION MADE TO DISCONTINUE  
 THE 10-PURGE VOLUME TEST SINCE BASED ON VISUAL  
 EVIDENCE THAT 3-PURGE VOLUMES WOULD BE APPROPRIATE  
 FOR SOIL GAS SAMPLING @ JW

**1315** COMPLETE PURGE VOLUME TESTING; PROCEED W/ SOIL GAS  
 SAMPLING USING 3 PURGE VOLUME AT JW SB/SG 12  
 AT 5', 15', 25', 35' INTERVALS

**1600** H&P, GILBANE OFFSITE; TELECON W/ TOM BEER  
 RE: SPT SAMPLE RELOCATION AND LABELING  
 PROTOCOL

Prepared by: **PJ PHILLIPS**

Signature:

# Daily Activity Report (DAR)



Project Name: JERVIS WEBB Page 1 of 1  
 Project No./Task Code: J163007200 Date: 3/25/15

Description of Work: SVMW INSTALLATION; SOIL & SOIL GAS SAMPLING

Visitors / Subcontractors: KAREN JURIST / H&P

Weather:

## Description of Field Activities

0800 GILBANE, H&P ONSITE, COMPLETE TAILGATE SAFETY MTS, H&P SETS UP SAMPLING EQUIP. AT JW SB/SG 16, 17 AND 18, MOBILE LAB COMPLETES BLANK RUNS

0830 H&P RESAMPLES JW SB/SG 17 15' AND 25' INTERVALS BECAUSE PCE CONCEN. WERE OVER THE RANGE SET FOR DILUTION

FABRICATE PRESSURE GAUGE ASSEMBLY TO CK. PRE-POST SAMPLE COLLECTION PRESSURES IN SUMMA CANS PREPARE SUMMA CAN FOR SPLIT SAMPLE FROM JW SB/SG 18 @ 25'

H&P CONTINUE SAMPLE COLLECTION & ANALYSIS AT JW SB/SG 16 AND 18

1040 COLLECT EPA SPLIT SAMPLE AT JW SB/SG 18 @ 25'

1100 MOVE SAMPLING ACTIVITIES TO JW SB/SG 19, 11:19

1215 H&P LUNCH

1340 KAREN JURIST (EPA RPM) ONSITE TO INSPECT OPERATION, OBSERVES COLLECTION OF JW SB/SG 19 - E5 SAMPLE, INSPECTS MOBILE LAB EQUIP; DISCUSS NEXT PROCESS AND SCHEDULED EVENTS FOR THE RI W/ PJP & E&G.

1440 KAREN JURIST OFFSITE, CONTINUE COLLECTION OF SOIL GAS SAMPLES AT JW SB/SG 19

Prepared by: PJP/PHILIPS

Signature:



## Daily Activity Report (DAR)



Project Name:

JERVIS WEBB

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Project No./Task Code:

J163007 Z00

Date: 3/26/12

Description of Work:

ENVIRONMENTAL INSTALLATION; SOIL &amp; SOIL GAS SAMPLING

Visitors / Subcontractors:

H&amp;P

Weather:

## Description of Field Activities

0800 PJP, E.G. & H&P ON SITE AT 5030 FIRESTONE, COMPLETE  
TAIL GATE SAFETY MTG., RUN MOBILE LAB BLANKS

0900 COMPLETE SOIL GAS SAMPLING AT JW SB/SG 19  
THEN MOVE TO JW SB/SG 11

1120 CONTINUE SOIL GAS SAMPLING AT JW SB/SG 11, RESAMPLE  
15' & 25' INTERVALS

1310 MOVE EQUIP. TO JW SB/SG 07; RESAMPLE JW SB/SG  
11 @ 35'

1515 COLLECT EPA SPLIT SAMPLE AT JW SB/SG 07-E15

1545 H&P OFF SITE, PREPARE EPA SPLIT SAMPLE FOR  
SHIPMENT

1640 RELINQUISH EPA SPLIT SAMPLE TO FED EX

Prepared by:

PJP/PHILIPS

Signature:





## Daily Activity Report (DAR)

Project Name:  
JERVIS WEBB

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Project No./Task Code:  
J163007200Date:  
3/27/15Description of Work:  
soil gas sampling

Visitors / Subcontractors:

H&amp;P Geochemistry

Weather:

AM: 70°F, clear

PM: 89°F, clear-sunny

## Description of Field Activities

0745 Arrive @ 5030 Firestone Blvd. (United Motor Club). Gate open upon arrival.

0800 H&P arrives onsite. Conduct H&S meeting.

0810 Set up on VW-SB/SG07. Start purge for 25' & 35' sample depths. Purge @ ~200 mL/min.

0830 Collect sample VW-SB/SG07-25.

0900 Collect sample VW-SB/SG07-35.

0905 Set up on VW-SB/SG08. Start purge for 5' sample. Purge @ 200 mL/min.

0920 Collect sample VW-SB/SG08-5.

0940 Collect sample VW-SB/SG08-15.

1005 Collect sample VW-SB/SG08-25.

1030 Collect sample VW-SB/SG08-35.

1055 Set up on VW-SB/SG10. Start purge for @ ~200 mL/min.

1115 Collect sample VW-SB/SG10-5.

1200 Collect sample VW-SB/SG10-15.

1300 Collect sample VW-SB/SG-25.

1325 Collect sample VW-SB/SG-35.

1335 Set up on VW-SB/SG12. Start purge @ ~200 mL/min.

1415 Collect sample VW-SB/SG12-5.

1440 Collect sample VW-SB/SG12-15.

1505 Collect sample VW-SB/SG12-25.

1530 Secure work area. Leave site.

Prepared by:

E. Gilner

Signature:



## Daily Activity Report (DAR)

Project Name:  
JERVIS WEBB

Page 1 of 1

Project No./Task Code:  
J163007200

Date: 3-30-15

Description of Work:  
soil gas sampling

Visitors / Subcontractors:

H &amp; P Geochemistry

Weather:

AM - 62°F, cloudy / PM - 80°F, clear/sunny

## Description of Field Activities

0745 Arrive @ 5030 Firestone Blvd location.  
0755 H & P staff arrives. Conduct H&S meeting.  
0810 Set up on JW-SB/SG12-35. Start purge @ ~200 mL/min.  
0835 Collect sample JW-SB/SG12-E35.  
0850 Set up on JW-SB/SG13. Start purge @ ~200 mL/min.  
0900 Collect sample JW-SB/SG13-E5.  
0925 Collect sample JW-SB/SG13-E15.  
1012 Collect sample JW-SB/SG13-E25.  
1125 Collect sample JW-SB/SG13-E35.  
1130 High VOC concentrations detected @ 25' & 35' depths.  
Resample w/ dilutions.  
Set up on JW-SB/SG14. Start purge @ ~200 mL/min.  
1215 Collect sample JW-SB/SG14-5.  
1305 Collect sample JW-SB/SG14-15.  
1335 Collect sample JW-SB/SG14-35.  
1430 Collect sample JW-SB/SG14-25.  
1435 Set up on JW-SB/SG15. Start purge @ 200 mL/min.  
1512 Collect sample JW-SB/SG15-5.  
1530 Secure work area. Leave site.

Prepared by:

E. Gittera

Signature:



## Daily Activity Report (DAR)

Project Name:  
JERVIS WEBB

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Project No./Task Code:  
J163007200Date:  
4-1-15Description of Work:  
soil gas sampling

Visitors / Subcontractors:

H &amp; P Geochemistry

Weather:

AM - 64°F, partly cloudy

PM - 73°F, clear/sunny

## Description of Field Activities

0730 Arrive @ Reliable Steel property.

0745 H &amp; P Geochemistry staff arrives. Conduct H &amp; S meeting.

0800 Set up on JN-SB/SG24. Start purge @ 25' depth.

0835 Collect sample JN-SG24-25.

0859 Collect sample JN-SG24-35.

0910 Set up on JN-SB/SG23. Start purging @ 200mL/min.

0922 Collect sample JN-SG23-5.

0952 Collect sample JN-SG23-15.

1017 Collect sample JN-SG23-25.

1045 Collect sample JN-SG23-35.

1100 Set up on JN-SB/SG22. Start purging @ 200mL/min.

1112 Collect sample JN-SG22-5.

1145 Collect sample JN-SG22-25.

1204 Collect sample JN-SG22-35.

1230 Continue purging @ 15' depth. Vacuum persistent @ this depth.

1250 Set up on JN-SB/SG20. Start purging @ 200mL/min.

1305 Collect sample JN-SG20-5.

1438 Collect sample JN-SG20-15.

1503 Collect sample JN-SG20-35.

1530 Secure work area &amp; leave site.

Prepared by:

E. Gittera

Signature:



# Daily Activity Report (DAR)

Project Name:  
JERVIS WEBB

Page 1 of 1

Project No./Task Code:  
J163007200

Date:  
4-2-15

Description of Work:  
soil gas sampling

Visitors / Subcontractors:  
H&P Geochemistry

Weather:  
Am- 60°F. partly cloudy

## Description of Field Activities

0730 Arrive @ Reliable Steel facility.

0745 H&P staff arrives. Conduct H&S meeting.

0750 Set up on JW-SB/SG21. Start purge @ 200 mL/min.

0823 Collect sample JW-SG21-35.

0847 Collect sample JW-SG21-5.

0933 Collect sample JW-SG21-15.

0945 ~~white~~ Water drawn up tubing during purging for JW-SG22-15' interval. No sample will be collected from this depth.

1006 Collect sample JW-SG20-25.

1029 Collect sample JW-SG21-25.

1100 Clean & secure work area.

1115 Leave site. Pump samples for shipping.

Prepared by:

E. Giller

Signature:



# MONITORING WELL WATER LEVEL MEASUREMENT FORM

Project Name and Location: Jervis Webb  
 Measured By: Saw (Blaine Tech)

Project No.: J163007200  
 Date(s): 12-02-2016

Monitoring Well I.D.	Depth to NAPL (feet)	Depth to Water (feet)	Depth to Bottom (feet)	Time	Comments/ Observations
<del>JWNW</del> W-04	-	60.80	68.82	8:00	Reliable Steel
JWNW-05	-	61.30	69.0	8:20	Reliable Steel
JWNW-06A	-	62.36	70	9:00	Firestone
JWNW-06B	-	62.95	84	9:05	↓
JWNW-06C	-	64.21	98	9:10	
JWNW-07A	-	63.30	70	9:20	
JWNW-07B	-	63.37	84	9:25	
JWNW-07C	-	66.17	65	9:30	
JWNW-08A	-	58.89	67	8:35	Rayo Ave
JWNW-08B	-	59.20	84	8:40	↓
JWNW-08C	-	68.21	122	8:42	↓
JWNW-09A	-	60.79	68	8:05	Reliable Steel
JWNW-09B	-	61.77	87.3	8:08	↓
JWNW-09C	-	62.7	99.7	8:10	
JWNW-10	-	69.60	134.3	8:15	
JWNW-11A	-	61.21	68	1015	ELG
JWNW-11B	-	61.53	90	1017	ELG
JWNW-11C	-	68.35	90 <sup>128</sup>	1019	ELG
JWNW-12	-	68.60	142.6	1045	ELG



## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: 1163 007200  
Well No./ Location ID: JW-MW-04 Tested By: SR Date: 11-29-16

Measuring Point Description: TWC Static Water Level (ft.): 60.82  
Total Well Depth (ft.): 68.82 Screen Interval (ft.): 40-70 Sample Depth (ft.): 65'  
Water Level Measurement Method: Solinst  
Purge Method: Low Flow Sample Method: Low Flow  
Time Start Purge: 0744 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other:  
Time End Purge: 0803 Time Sampled: 0804  
Volume Purged (L): 4.2 Calculated Flow Rate (L/min): 200 <sup>(SR)</sup> ml/min 0.2  
Sample ID: JW-MW-04  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0747	19.1	6.62	5.07	0.36	-9.6	819	60.89
0750	19.4	6.69	5.10	0.38	-26.9	631	60.89
0753	19.5	6.76	5.12	0.36	-37.4	651	60.89
0756	19.5	6.78	5.14	0.34	-42.1	645	60.89
0759	19.5	6.80	5.16	0.33	-44.9	640	60.89
0800	19.5	6.82	5.18	0.33	-46.8	636	60.89
0803	19.5	6.84	5.19	0.32	-50.9	634	60.89

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: J163007200  
Well No./ Location ID: JW11W-05 Tested By: SN Date: 11/30/2016

Measuring Point Description: TOC Static Water Level (ft.): 61.31  
Total Well Depth (ft.): 69.00 Screen Interval (ft.): 40-70 Sample Depth (ft.): 65  
Water Level Measurement Method: Sliming  
Purge Method: Low Flow 2" bands Sample Method: Low Flow  
Time Start Purge: 0706 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: none  
Time End Purge: 0739 Time Sampled: 0740  
Volume Purged (L): 9.96 Calculated Flow Rate (L/min): 0.3  
Sample ID: JW11W-05-1116  
Comments:

ms/mg taken

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0709	20.4	7.35	5.24	0.39	123.8	79	61.34
0712	20.9	7.24	5.43	0.38	43.2	56	61.34
0715	21.3	7.18	5.51	0.37	4.8	48	61.34
0718	21.7	7.16	5.52	0.33	-23.7	42	61.34
0721	22.1	7.15	5.52	0.32	-40.2	38	61.34
0724	22.3	7.14	5.52	0.28	-68.0	35	61.34
0727	22.5	7.14	5.52	0.27	-78.4	31	61.34
0730	22.8	7.13	5.53	0.25	-82.6	30	61.34
0733	22.9	7.13	5.53	0.24	-85.2	29	61.34
0736	23.0	7.13	5.54	0.23	-88.8	28	61.34
0739	23.0	7.13	5.54	0.22	-89.2	28	61.34

Version 012314



## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: J163007200  
Well No./ Location ID: JWNW-06A Tested By: se Date: 12-02-16

Measuring Point Description: TOC Static Water Level (ft.): 62.38'  
Total Well Depth (ft.): 70 Screen Interval (ft.): 60-70 Sample Depth (ft.): 66'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow Sample Method: Low flow  
Time Start Purge: 0402 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: None  
Time End Purge: 0420 Time Sampled: 04:21  
Volume Purged (L): 4.2 LBS Calculated Flow Rate (L/min): 0.2 L/min  
Sample ID: JWNW-06A-1116  
Comments: Rotten egg odor in purged water

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0402	20.9	7.50	4.89	1.64	-147.1	>1,000	62.66
0405	21.0	7.41	4.35	1.07	-140.6	631	62.67
0408	21.1	7.37	4.32	1.05	-136.4	600	62.68
0411	21.1	7.36	4.31	1.02	-132.6	583	62.68
0414	21.2	7.35	4.30	1.01	-129.9	576	62.68
0417	21.1	7.34	4.30	1.00	-128.8	570	62.68
0420	21.0	7.33	4.29	0.98	-128.1	568	62.68

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: J163007200  
Well No./ Location ID: JWNW-06B Tested By: SL Date: 12-02-16

Measuring Point Description: TOC Static Water Level (ft.): 62.99  
Total Well Depth (ft.): 84.13 Screen Interval (ft.): 79-84 Sample Depth (ft.): 82'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow Sample Method: low flow  
Time Start Purge: 0308 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: None  
Time End Purge: 0329 Time Sampled: 0330  
Volume Purged (L): 4.8 Lb Calculated Flow Rate (L/min): 0.2 L/min  
Sample ID: JWNW-06B-1116  
Comments: Odor rotten egg

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0308	20.8	7.44	4.52	0.27	-118.5	550	63.51
0311	21.3	7.35	5.04	0.24	-158.6	583	63.51
0314	21.6	7.33	5.09	0.23	-160.8	563	63.51
0317	21.8	7.30	5.13	0.22	-162.9	558	63.51
0320	21.8	7.27	5.15	0.22	-164.0	555	63.51
0323	21.9	7.25	5.16	0.22	-166.2	550	63.51
0326	22.0	7.23	5.17	0.22	-167.0	546	63.51
0329	22.0	7.22	5.18	0.21	-167.7	542	63.51

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: J163007200  
Well No./ Location ID: JWMW-06C Tested By: SL Date: 12/02/2016

Measuring Point Description: TOC Static Water Level (ft.): 64.23  
Total Well Depth (ft.): 98.18 Screen Interval (ft.): 112-122 Sample Depth (ft.): 96  
Water Level Measurement Method: Submersed  
Purge Method: Low Flow - 2" braid Sample Method: Low Flow  
Time Start Purge: 0223 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: none  
Time End Purge: 0244 Time Sampled: 0245  
Volume Purged (L): 6.3 Calculated Flow Rate (L/min): 0.3  
Sample ID: JWMW-06C-1116  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0226	19.8	7.88	1.56	0.49	-72.0	182	64.34
0229	19.8	7.82	1.66	0.46	-92.3	121	64.34
0232	20.1	7.46	1.66	0.47	-103.9	115	64.34
0235	20.3	7.42	1.67	0.46	-108.6	112	64.34
0238	20.4	7.40	1.67	0.45	-110.9	109	64.34
0241	20.4	7.39	1.67	0.45	-112.6	111	64.34
0244	20.4	7.38	1.67	0.44	-113.0	109	64.34

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## Low-Flow Groundwater Purge and Sample Log

Project Name: Jeruis Webb Project No.: J163007200  
Well No./ Location ID: JWNW-07A Tested By: SP Date: 02/02/16

Measuring Point Description: TOC Static Water Level (ft.): 63.33  
Total Well Depth (ft.): 700 Screen Interval (ft.): 60-70 Sample Depth (ft.): 66.67  
Water Level Measurement Method: Static  
Purge Method: Low Flow - QED Bladder Pump Sample Method: Low Flow  
Time Start Purge: 01:00 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: none  
Time End Purge: 01:22 Time Sampled: 01:23  
Volume Purged (L): 4.2 Calculated Flow Rate (L/min): 0.2  
Sample ID: JWNW-07A-1116  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
01:04	21.4	7.32	5.77	0.66	57.9	662	63.52
01:07	21.4	7.24	5.85	0.66	-65.1	343	63.60
01:10	21.4	7.22	5.88	0.60	-69.4	241	63.62
01:13	21.4	7.21	5.91	0.58	-70.9	200	63.63
01:16	21.4	7.20	5.93	0.57	-72.1	196	63.63
01:19	21.4	7.20	5.94	0.55	-73.5	190	63.63
01:22	21.4	7.19	5.94	0.54	-74.1	194	63.63

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## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: J163007200  
Well No./ Location ID: JWW-07B Tested By: SR Date: 12/02/2016

Measuring Point Description: TOC Static Water Level (ft.): 63.41  
Total Well Depth (ft.): 84.11 Screen Interval (ft.): 79-84 Sample Depth (ft.): 82  
Water Level Measurement Method: Solinst  
Purge Method: Low Flow - 2" Ground As Sample Method: Low Flow  
Time Start Purge: 00:05 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other:  
Time End Purge: 00:26 Time Sampled: 00:27  
Volume Purged (L): 6.3 Calculated Flow Rate (L/min): 0.23  
Sample ID: JWW-07B-1116  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
00:08	20.0	7.53	1.94	0.48	-32.5	600	67.00
00:11	20.2	7.48	1.96	0.47	-55.5	448	67.06
00:14	20.5	7.44	1.96	0.45	-68.9	500	67.08
00:17	20.5	7.42	1.96	0.44	-74.6	492	67.10
00:20	20.6	7.39	1.96	0.44	-79.2	486	67.11
00:23	20.6	7.38	1.96	0.44	-80.9	482	67.12
00:26	20.6	7.37	1.96	0.44	-81.4	479	67.13

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## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervia Webb Project No.: J163 007200  
Well No./ Location ID: JWW-07C Tested By: SR Date: 12/02/2016

Measuring Point Description: TOC Static Water Level (ft.): 66.25  
Total Well Depth (ft.): 105.71 Screen Interval (ft.): 96-106 Sample Depth (ft.): 101  
Water Level Measurement Method: Submersed  
Purge Method: Low Flow - 2' line Sample Method: Low Flow  
Time Start Purge: 2314 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other:  
Time End Purge: 2335 Time Sampled: 2336  
Volume Purged (L): 6.3 Calculated Flow Rate (L/min): 0.3  
Sample ID: JWW-07C-1116  
Comments: collected Duplicate as JWW-07C-1116

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
2317	20.1	8.34	1.78	0.99	-77.7	137	66.34
2320	20.1	8.01	1.79	0.95	-92.1	127	66.34
2323	20.1	7.86	1.79	0.94	-103.1	120	66.34
2326	20.1	7.42	1.80	0.94	-107.1	116	66.34
2329	20.2	7.40	1.80	0.92	-108.6	114	66.34
2332	20.2	7.39	1.80	0.91	-109.7	110	66.34
2335	20.2	7.38	1.80	0.91	-109.6	112	66.34

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## Low-Flow Groundwater Purge and Sample Log

Project Name: Tervis Webb Project No.: J163007200  
Well No./ Location ID: JW1W-08A Tested By: SC Date: 11/30/2016

Measuring Point Description: TOC Static Water Level (ft.): 59.91  
Total Well Depth (ft.): 67.62 Screen Interval (ft.): 58-68 Sample Depth (ft.): 64  
Water Level Measurement Method: Submersible  
Purge Method: Low Flow - 2" Grand Sample Method: Low Flow  
Time Start Purge: 1210 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: none  
Time End Purge: 1243 Time Sampled: 1244  
Volume Purged (L): 6.6 L Calculated Flow Rate (L/min): 0.2  
Sample ID: JW1W-08A-1116  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1213	23.1	7.33	3.08	1.20	-67.4	>1000	59.15
1216	23.6	7.23	3.11	1.15	-77.0	>1000	59.14
1219	24.2	7.16	3.13	1.11	-83.6	>1000	59.14
1222	24.6	7.14	3.13	1.07	-91.4	838	59.14
1225	24.8	7.13	3.13	1.04	-99.7	507	59.14
1228	25.0	7.11	3.13	0.97	-100.0	363	59.14
1231	25.3	7.10	3.13	0.89	-100.1	155	59.14
1234	25.6	7.10	3.13	0.86	-100.1	95	59.14
1237	25.8	7.10	3.13	0.85	-100.0	99	59.14
1240	25.8	7.10	3.13	0.84	-100.4	96	59.14
1243	25.9	7.10	3.13	0.84	-100.4	94	59.14

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## Low-Flow Groundwater Purge and Sample Log

Project Name:

Jervis Webb

Project No.:

J163007200

Well No./ Location ID:

JWMW-08B

Tested By:

SR

Date:

11/30/2016

Measuring Point Description:

TOC

Static Water Level (ft.):

59.23

Total Well Depth (ft.):

83.81

Screen Interval (ft.):

79-84

Sample Depth (ft.):

81

Water Level Measurement Method:

Solenist

Purge Method:

Low Flow - 2" Ground for

Sample Method:

Low Flow

Time Start Purge:

0701 1024

Field Filter (micron):

1.0 / 0.45 / 0.1 / Other: none

Time End Purge:

1103

Time Sampled:

1104

Volume Purged (L):

7.8L

Calculated Flow Rate (L/min):

0.2

Sample ID:

JWMW-08B-1116 as original and JWMW-098B-1116 as Dup

Comments:

odor ~ Rotten Egg

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1027	22.3	7.43	3.08	0.16	-251.9	424	64.31
1030	22.8	7.41	3.59	0.16	-296.8	235	64.26
1033	23.3	7.38	3.99	0.15	-301.0	151	64.23
1036	23.7	7.35	4.11	0.14	-306.1	102	64.21
1039	24.0	7.33	4.18	0.13	-309.4	47	64.20
1042	24.2	7.29	4.22	0.13	-312.6	42	64.20
1045	24.4	7.29	4.26	0.13	-313.2	36	64.20
1048	24.5	7.28	4.29	0.12	-313.8	32	64.20
1051	24.7	7.27	4.31	0.12	-313.7	30	64.20
1054	24.8	7.26	4.33	0.11	-314.0	28	64.20
1057	24.9	7.25	4.34	0.11	-314.2	26	64.20
1100	24.9	7.26	4.35	0.10	-314.5	25	64.20
1103	25.0	7.25	4.36	0.10	-314.9	25	64.20

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## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: J163007200  
Well No./ Location ID: JWMW-08C Tested By: SN Date: 11/30/16

Measuring Point Description: Toc Static Water Level (ft.): 68.28  
Total Well Depth (ft.): 121.99 Screen Interval (ft.): 112-122 Sample Depth (ft.): 117  
Water Level Measurement Method: Solenist  
Purge Method: Low Flow - 2" GPM Sample Method: Low Flow  
Time Start Purge: 0847 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: none  
Time End Purge: 0944 Time Sampled: 0945  
Volume Purged (L): 17.1 Calculated Flow Rate (L/min): 0.3  
Sample ID: JWMW-08C-1116  
Comments: Odor ~ Rotten Egg

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0850	20.3	7.67	2.36	0.22	-80.2	>1000	68.41
0853	21.1	7.42	2.57	0.21	-96.2	>1000	68.41
0856	21.8	7.37	2.63	0.19	-112.6	>1000	68.41
0859	22.1	7.25	2.65	0.18	-114.5	>1000	68.41
0902	22.3	7.22	2.64	0.18	-113.9	>1000	68.41
0905	22.5	7.17	2.64	0.17	-114.7	>1000	68.41
0908	22.7	7.15	2.61	0.16	-115.2	>1000	68.41
0911	22.9	7.15	2.62	0.15	-115.8	>1000	68.41
0914	22.8	7.14	2.62	0.14	-116.2	536	68.41
0917	22.8	7.12	2.62	0.13	-117.0	420	68.41
0920	22.7	7.12	2.63	0.12	-117.4	350	68.41
0923	22.8	7.12	2.63	0.12	-117.7	296	68.41
0926	22.7	7.12	2.63	0.12	-118.0	192	68.41
0929	22.7	7.12	2.63	0.12	-118.1	185	68.41

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Project Name: Jernslevbakk Project No.: J163007200  
Well No./ Location ID: JW, MW - 08C Tested By: SA Date: 11/30/16

Measuring Point Description: <u>TUC</u>		Static Water Level (ft.): <u>68.28</u>	
Total Well Depth (ft.): <u>121.99</u>	Screen Interval (ft.): <u>112-122</u>	Sample Depth (ft.): <u>117</u>	
Water Level Measurement Method: _____			
Purge Method: <u>Low Flow - 2" Grounds</u>	Sample Method: <u>Low Flow</u>		
Time Start Purge: <u>0847</u>	Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: <u>none</u>		
Time End Purge: <u>0944</u>	Time Sampled: <u>0945</u>		
Volume Purged (L): <u>17.1</u>	Calculated Flow Rate (L/min): <u>0.3</u>		
Sample ID: <u>JMW-08C-1116</u>			
Comments: _____			

[illegible]





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: J163007200  
Well No./ Location ID: JWMW-09A Tested By: SR Date: 11/28/2016

Measuring Point Description: TOC Static Water Level (ft.): 60.81  
Total Well Depth (ft.): 67.52 Screen Interval (ft.): 63-68 Sample Depth (ft.): 66'  
Water Level Measurement Method: Solinst  
Purge Method: Low Flow Ground Sample Method: Low Flow  
Time Start Purge: 1214 Field Filter (micron): 1.0/0.45/0.1 Other: None  
Time End Purge: 1244 Time Sampled: 1245  
Volume Purged (L): 6 Calculated Flow Rate (L/min): 0.2  
Sample ID: JWMW-09A-1116  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1217	22.4	7.20	5.04	0.32	50.2	>1000	60.91
1220	22.6	7.18	5.36	0.21	-11.2	>1000	60.91
1223	23.4	7.16	5.42	0.21	-49.6	>1000	60.91
1226	23.5	7.15	5.46	0.20	-56.9	>1000	60.91
1229	23.8	7.15	5.52	0.20	-63.4	496	60.91
1232	24.1	7.13	5.56	0.20	-66.4	400	60.91
1235	24.3	7.12	5.59	0.20	-69.4	420	60.91
1238	24.5	7.11	5.61	0.20	-72.8	415	60.91
1241	24.5	7.11	5.63	0.20	-73.5	402	60.91
1244	24.5	7.10	5.64	0.19	-74.2	396	60.91

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## Low-Flow Groundwater Purge and Sample Log

Project Name: Tervis Webb Project No.: J163007200  
Well No./ Location ID: JWMW-09B Tested By: SR Date: 11/28/2016

Measuring Point Description: Toc Static Water Level (ft.): 61.71  
Total Well Depth (ft.): 87.32 Screen Interval (ft.): 83-88 Sample Depth (ft.): 85'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow (ground) Sample Method: Low flow  
Time Start Purge: 1043 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other:  
Time End Purge: 1107 Time Sampled: 1108  
Volume Purged (L): 4.8L Calculated Flow Rate (L/min): 0.2  
Sample ID: JWMW-09B  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1046	22.0	8.06	1.83	0.92	46.0	616	61.91
1049	22.7	7.61	1.77	0.16	12.3	335	61.92
1052	22.8	7.49	1.74	0.13	-1.5	156	61.92
1055	22.9	7.42	1.71	0.12	-7.0	49	61.92
1058	23.0	7.40	1.71	0.11	-10.9	22	61.92
1101	23.1	7.38	1.71	0.10	-13.9	17	61.92
1104	23.1	7.36	1.71	0.10	-15.0	17	61.92
1107	23.2	7.35	1.70	0.10	-16.7	17	61.92

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: J163007200  
Well No./ Location ID: JWNW-09C Tested By: SR Date: 11/28/2016

Measuring Point Description: TOC Static Water Level (ft.): 62.73  
Total Well Depth (ft.): 99.71 Screen Interval (ft.): 95-100 Sample Depth (ft.): 97.5  
Water Level Measurement Method: Solinst  
Purge Method: Grundfos Pump Sample Method: Low Flow  
Time Start Purge: 0951 Field Filter (micron): 1.0/0.45/0.1/Other: No  
Time End Purge: 1012 Time Sampled: 1013  
Volume Purged (L): 4.2 Calculated Flow Rate (L/min): 0.2  
Sample ID: JWNW-09C  
Comments: Bottom Egg aduc

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0954	21.0	7.38	1.57	0.27	-41.9	24.98	62.91
0957	22.0	7.30	1.62	0.24	-86.0	44	62.92
1000	22.1	7.28	1.65	0.20	-90.0	38	62.92
1003	22.6	7.27	1.66	0.19	-93.4	26.26	62.92
1006	22.7	7.27	1.66	0.19	-95.2	25	62.92
1009	22.7	7.27	1.66	0.18	-97.0	24	62.92
1012	22.7	7.27	1.66	0.18	-98.1	24	62.92

Version 012314



## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervil Webb Project No.: J163007200  
Well No./ Location ID: JW-MW-10 Tested By: SR Date: 11/28/2016

Measuring Point Description: TOL Static Water Level (ft.): 69.63  
Total Well Depth (ft.): 134.32 Screen Interval (ft.): 130-135 Sample Depth (ft.): 132.5  
Water Level Measurement Method: Salinist  
Purge Method: Low Flow Sample Method: Low Flow  
Time Start Purge: 0841 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other:  
Time End Purge: 0914 Time Sampled: 0914  
Volume Purged (L): 6 Calculated Flow Rate (L/min): 0.2  
Sample ID: JW-MW-10  
Comments: Rotten Egg Odor

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0844	20.4	7.62	<sup>m</sup> 1.57	0.35	-12.8	994	69.72
0847	20.6	7.41	1.59	0.33	-39.3	>1000	69.72
0850	20.8	7.32	1.62	0.26	-47.8	856	69.72
0853	21.4	7.27	1.61	0.24	-49.8	270	69.72
0859	21.6	7.25	1.61	0.22	-49.4	190	69.72
0901	21.7	7.25	1.61	0.21	-48.9	88	69.72
0904	21.8	7.25	1.61	0.21	-48.9	11	69.72
0907	21.9	7.24	1.60	0.20	-49.1	10	69.72
0910	21.9	7.24	1.59	0.19	-49.9	10	69.72
0913	21.9	7.24	1.60	0.19	-50.1	10	69.72

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: J163007200  
 Well No./ Location ID: JWMW-11A Tested By: SR Date: 11/29/2016

Measuring Point Description: TOC Static Water Level (ft.): 61.21  
 Total Well Depth (ft.): 67.81 Screen Interval (ft.): 59-69 Sample Depth (ft.): 65'  
 Water Level Measurement Method: Solinst  
 Purge Method: Low flow - RED Bladder Pump Sample Method: Low flow  
 Time Start Purge: 1253 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: None  
 Time End Purge: 1247 Time Sampled: 1248  
 Volume Purged (L): 10.8 Calculated Flow Rate (L/min): 0.2  
 Sample ID: JWMW-11A-1116  
 Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
<del>1256</del> 1156	20.0	7.73	3.27	0.56	-6.0	>1000	61.23
1159	20.0	7.56	3.29	0.45	-18.9	>1000	61.23
1202	20.0	7.44	3.30	0.38	-30.8	>1000	61.23
1205	20.0	7.41	3.33	0.34	-40.8	>1000	61.23
1208	20.0	7.37	3.35	0.33	-47.8	>1000	61.23
1211	20.0	7.31	3.38	0.31	-55.8	>1000	61.23
1214	20.0	7.26	3.39	0.28	-60.7	864	61.23
1217	20.0	7.23	3.39	0.28	-62.8	758	61.23
1220	20.0	7.21	3.40	0.27	-64.5	549	61.23
1223	20.0	7.20	3.41	0.26	-66.5	332	61.23
1226	20.0	7.19	3.42	0.24	-67.6	263	61.23
1229	20.0	7.18	3.43	0.24	-68.1	216	61.23
1232	20.0	7.17	3.43	0.23	-69.0	177	61.23
1235	20.0	7.16	3.43	0.21	-69.5	138	61.23

Version 012314

## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Wells Project No.: J163007200  
 Well No./ Location ID: JWML-11A Tested By: SP Date: 4/29/2016

Measuring Point Description: TUC Static Water Level (ft.): 61.21  
 Total Well Depth (ft.): 67.81 Screen Interval (ft.): 59.69 Sample Depth (ft.): 65'  
 Water Level Measurement Method: Solinst  
 Purge Method: Low Flow - QED Bladder Pump Sample Method: Low Flow  
 Time Start Purge: 1153 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: none  
 Time End Purge: 1247 Time Sampled: 1248  
 Volume Purged (L): 10.8 Calculated Flow Rate (L/min): 0.2  
 Sample ID: JWML-11A-1116  
 Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1238	20.1	7.15	3.44	0.18	<del>70.5</del>	106	61.23
1241	20.1	7.15	3.44	0.17	-71.0	80	61.23
1244	20.1	7.14	3.44	0.16	-71.4	163	61.23
1247	20.1	7.14	3.44	0.15	-72.0	84	61.23
1248	Sample	Collected	per	Client's	Request		

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: J163007200  
Well No./ Location ID: JWMW-11B Tested By: SR Date: 11/29/2016

Measuring Point Description: TOC Static Water Level (ft.): 61.53  
Total Well Depth (ft.): 89.92 Screen Interval (ft.): 80-90 Sample Depth (ft.): 61.53-85  
Water Level Measurement Method: Solinst  
Purge Method: Low Flow - 2" Grundfos Sample Method: Low Flow  
Time Start Purge: 1020 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other:  
Time End Purge: 1102 Time Sampled: 1103  
Volume Purged (L): 12.6 Calculated Flow Rate (L/min): 0.3  
Sample ID: JWMW-11B-1116  
Comments: Duplicate sample as JWMW-911B-1116  
odor ~ Rotten Egg

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1023	21.2	7.31	5.09	0.27	-45.4	>1000	61.72
1026	21.6	7.27	5.10	0.21	-48.9	>1000	61.72
1029	21.9	7.22	5.19	0.22	-62.1	>1000	61.72
1032	22.1	7.17	5.22	0.22	-67.9	>1000	61.72
1035	22.2	7.12	5.24	0.22	-70.8	928	61.72
1038	22.1	7.11	5.24	0.21	-74.2	348	61.72
1041	22.0	7.09	5.25	0.20	-76.4	131	61.72
1044	22.1	7.08	5.27	0.19	-77.0	115	61.72
1047	22.1	7.07	5.28	0.19	-77.4	92	61.72
1050	22.0	7.06	5.29	0.19	-77.6	83	61.72
1053	22.2	7.06	5.31	0.19	-77.9	52	61.72
1056	22.3	7.05	5.32	0.18	-78.2	49	61.72
1059	22.3	7.05	5.32	0.18	-79.0	47	61.72
1102	22.3	7.05	5.33	0.18	-79.3	46	61.72

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Project No.: J163007200  
Well No./ Location ID: JWNW-11C Tested By: SN Date: 11/29/2016

Measuring Point Description: TOC Static Water Level (ft.): 68.35  
Total Well Depth (ft.): 128.54 Screen Interval (ft.): 118-128 Sample Depth (ft.): 123  
Water Level Measurement Method: Solinst  
Purge Method: Gravimetric Sample Method: Low flow  
Time Start Purge: 0854 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: None  
Time End Purge: 0926 Time Sampled: 0927  
Volume Purged (L): 10.8 Calculated Flow Rate (L/min): 0.3  
Sample ID: JWNW-11C  
Comments: Odor ~ Rotten Egg

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0853	19.2	7.41	3.86	0.33	20.7	383	68.49
0856	19.4	7.38	3.90	0.30	10.8	293	68.49
0859	19.4	7.30	3.97	0.28	-11.1	236	68.49
0902	19.8	7.24	4.06	0.28	-29.6	192	68.49
0905	20.1	7.20	4.06	0.27	-46.2	174	68.49
0908	20.3	7.19	4.07	0.27	-55.8	134	68.49
0911	20.6	7.18	4.07	0.27	-64.7	91.2	68.49
0914	20.8	7.17	4.07	0.27	-69.0	52	68.49
0917	20.9	7.16	4.07	0.26	-71.0	38	68.49
0920	21.0	7.16	4.07	0.25	-72.5	27	68.49
0923	21.1	7.15	4.07	0.23	-73.5	27	68.49
0926	21.1	7.15	4.08	0.22	-74.0	27	68.49
0929							

Version 012314



## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervia Webb Project No.: J163007200  
Well No./ Location ID: JWMW-12 Tested By: SL Date: 11/29/2016

Measuring Point Description: TOC Static Water Level (ft.): 68.61  
Total Well Depth (ft.): 142.63 Screen Interval (ft.): 138-143 Sample Depth (ft.): 141  
Water Level Measurement Method: Solmist  
Purge Method: Low Flow - 2" Grundfos Sample Method: Low Flow  
Time Start Purge: 0735 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other:  
Time End Purge: 0810 Time Sampled: 0811  
Volume Purged (L): 10.8 Calculated Flow Rate (L/min): 0.3  
Sample ID: JWMW-12-1116  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0738	17.4	7.92	4.28	0.52	164.0	>1000	68.74
0741	17.6	7.86	4.29	0.27	160.9	>1000	68.74
0744	18.0	7.74	4.31	0.26	157.3	966	68.74
0747	18.2	7.67	4.32	0.26	155.8	474	68.74
0750	18.2	7.49	4.32	0.27	152.8	155	68.74
0753	18.4	7.42	4.33	0.26	150.0	76	68.74
0756	18.5	7.39	4.33	0.25	147.2	43	68.74
0759	18.6	7.38	4.34	0.25	143.9	29	68.74
0801	18.7	7.38	4.34	0.25	140.8	25	68.74
0804	18.7	7.38	4.34	0.25	139.5	23	68.74
0807	18.7	7.38	4.34	0.25	138.6	22	68.74
0810	18.7	7.38	4.34	0.25	137.2	22	68.74

Version 012314



## MONITORING WELL WATER LEVEL MEASUREMENT FORM

Project Name  
and Location:

Tervis Webb Superfund Site

Project No.:

J163007200

Measured By:

R. Long and Phil (Blaine Tech)

Date(s):

5/5/2017

Monitoring Well I.D.	Depth to NAPL (feet)	Depth to Water (feet)	Depth to Bottom (feet)	Time	Comments/Observations
JWNW-01	0	61.49	70	<del>7:50</del> 9:55	
JWNW-02	0	61.15	68.3	10:07	
JWNW-03	0	60.22	68	<del>7:57</del> 9:45	
JWNW-04	0	61.47	67	9:24	Broken well box loose Re
JWNW-05	0	61.68	68.3	9:30	Broken well box loose
JWNW-06A	0	62.89	69.5	11:30	
JWNW-06B	0	63.62	85	11:32	
JWNW-06C	0	64.70	122	11:35	
JWNW-07A	0	64.10	70	11:47	
JWNW-07B	0	64.30	99.5'	11:51	
JWNW-07C	0	66.88	105.8	11:58	
JWNW-08A	0	59.59	67.8	9:20	Rayo Ave
JWNW-08B	0	60.48	84.2	9:18	↓
JWNW-08C	0	68.69	117.4	9:15	↓
JWNW-09A	0	61.58	67.8	9:00	Reliable YARD
JWNW-09B	0	62.45	84.3	8:57	↓
JWNW-09C	0	63.38	99.1	8:55	↓
JWNW-10	0	70.01	134.8	8:60	↓
<del>Not used</del>					



## MONITORING WELL WATER LEVEL MEASUREMENT FORM

Project Name  
and Location:

Project Name and Location: Jervis Webb Superfund Site

Project No.:

Project No.: J163007200

Measured By:

Measured By: R. Leong and Phil (Blaine)

Date(s):

Date(s): 5/5/2017

[illegible]



## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWMW-01 Tested By: Blaine Tech Date: 05/04/17

Measuring Point Description: Top of Casing Static Water Level (ft.): 61.51  
Total Well Depth (ft.): 70' Screen Interval (ft.): 40-70 Sample Depth (ft.): 65  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 1127 Field Filter (micron): 10/0.45/0.1/Other: none  
Time End Purge: 1145 Time Sampled: 1146  
Volume Purged (L): \_\_\_\_\_ Calculated Flow Rate (L/min): 400ml/min  
Sample ID: JWMW-01-0517 @ 1146  
Comments: JWMW-01-0517 @ 1156 (duplicate)

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1130	22.9	7.42	4.09	0.59	-11.2	92	61.58
1133	23.2	7.40	4.14	0.56	-11.9	77	61.58
1136	24.8	7.34	4.33	0.78	-12.2	39	61.58
1139	24.9	7.34	4.35	0.88	-12.6	28	61.58
1142	25.2	7.33	4.36	0.92	-12.9	26	61.58
1145	25.4	7.32	4.37	0.96	-13.2	22	61.58

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JW00W-02 Tested By: Blaine Tech Date: 05/02/2017

Measuring Point Description: Top of Casing Static Water Level (ft.): 61.21  
Total Well Depth (ft.): 70' Screen Interval (ft.): 40-70 Sample Depth (ft.): 65  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 1315 Field Filter (micron): 10/0.45/0.1/Other: None  
Time End Purge: 1336 Time Sampled: 1337  
Volume Purged (L): 6.3L Calculated Flow Rate (L/min): 300 ml/min  
Sample ID: JW00W-02-05/7  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1318	23.2	7.65	3.56	0.75	-90.3	104	61.31
1321	23.3	7.49	3.71	0.64	-101.0	42	61.31
1324	24.0	7.44	3.73	0.62	-107.5	13	61.32
1327	24.2	7.38	3.82	0.58	-112.5	12	61.32
1330	25.0	7.37	3.81	0.57	-117.5	12	61.32
1333	25.1	7.37	3.81	0.57	-119.3	12	61.32
1336	25.0	7.36	3.80	0.56	-120.7	11	61.32

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWMW-03 Tested By: Blaine Tech Date: 05/04/2017

Measuring Point Description: Top of Casing Static Water Level (ft.): 60.17  
Total Well Depth (ft.): 70' Screen Interval (ft.): 40-70 Sample Depth (ft.): 65'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 1232 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other: None  
Time End Purge: 1256 Time Sampled: 1251  
Volume Purged (L): \_\_\_\_\_ Calculated Flow Rate (L/min): 500 ml/min  
Sample ID: JWMW-03-0517  
Comments: \_\_\_\_\_

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1235	25.0	7.50	7.14	0.54	15.4	332	60.33
1238	24.9	7.37	7.09	0.52	12.5	175	60.33
1241	25.5	7.32	7.24	0.51	10.7	124	60.33
1244	26.6	7.26	7.34	0.83	6.4	112	60.33
1247	26.8	7.26	7.39	0.85	6.0	110	60.33
1250	26.8	7.25	7.39	0.85	5.5	107	60.33

Version 012314



## Low-Flow Groundwater Purge and Sample Log

Project Name:

Jervis Webb Superfund Site

Project No.:

J163007200

Well No./ Location ID:

JWMW-04

Tested By:

Blaine Tech

Date:

05/01/2017

Measuring Point Description:

Top of casing

Static Water Level (ft.):

61.50

Total Well Depth (ft.):

70

Screen Interval (ft.):

40-70

Sample Depth (ft.):

60'

Water Level Measurement Method:

Solinst

Purge Method:

Low flow / pump

Sample Method:

Low flow

Time Start Purge:

1313

Field Filter (micron): 1.0 / 0.45 / 0.1 / Other:

Time End Purge:

1334

Time Sampled:

1335

Volume Purged (L):

3.5 L

Calculated Flow Rate (L/min):

500ml/min

Sample ID:

JWMW-04-0517

Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1316	23.6	7.36	4.40	2.52	-62.6	313	61.50
1319	24.4	7.29	4.71	1.96	-66.5	191	61.55
1322	25.3	7.26	4.88	1.83	-68.2	96	61.58
1325	25.9	7.22	5.09	1.59	-72.0	94	61.58
1328	26.4	7.20	5.11	1.54	-79.0	93	61.58
1331	26.4	7.20	5.19	1.53	-80.0	93	61.58
1334	26.4	7.20	5.13	1.53	-80.3	92	61.58

Version 012314



## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JJWW-05 Tested By: Blaine Tech Date: 05/01/2017

Measuring Point Description:		Static Water Level (ft.): <u>61.71</u>	
Total Well Depth (ft.): <u>70'</u>	Screen Interval (ft.): <u>40-70'</u>	Sample Depth (ft.): <u>60'</u>	
Water Level Measurement Method: <u>Solinst</u>			
Purge Method: <u>Low flow / pump</u>	Sample Method: <u>Low flow</u>		
Time Start Purge: <u>1400</u>	Field Filter (micron): <u><del>1.0 / 0.45 / 0.1</del> Other: <u>None</u></u>		
Time End Purge: <u>1419</u>	Time Sampled: <u>1420</u>		
Volume Purged (L): <u>3.0L</u>	Calculated Flow Rate (L/min): <u>500ml/min</u>		
Sample ID: <u>JWMW-05-0517</u>			
Comments:			

[illegible]

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWMW-06A Tested By: Blaine Teich Date: 05/03/2017

Measuring Point Description: Top of Casing Static Water Level (ft.): 62.90  
Total Well Depth (ft.): 70' Screen Interval (ft.): 60-70 Sample Depth (ft.): 65'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 1319 Field Filter (micron): 10/0.45/0.1/Other: None  
Time End Purge: 1337 Time Sampled: 1338  
Volume Purged (L): \_\_\_\_\_ Calculated Flow Rate (L/min): 200 ml/min  
Sample ID: JWMW-06A-0517  
Comments: \_\_\_\_\_

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1322	25.6	7.52	4.38	0.63	-86.4	>1000	63.47
1325	25.5	7.39	4.21	0.67	-87.5	>1000	63.51
1328	26.0	7.37	4.33	0.75	-87.8	>1000	63.51
1331	27.0	7.34	4.43	1.01	-87.4	892	63.51
1334	27.7	7.32	4.47	1.26	-87.4	646	63.51
1337	27.7	7.32	4.47	1.26	-87.5	625	63.51

Version 012314



## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWNW-06B Tested By: Blaine Tech Date: 05/03/17

---

Measuring Point Description: Top of casing Static Water Level (ft.): 63.60  
Total Well Depth (ft.): 85 Screen Interval (ft.): 79-84 Sample Depth (ft.): 82  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 1236 Field Filter (micron): 10/0.45/0.1 / Other: None  
Time End Purge: 1254 Time Sampled: 1255  
Volume Purged (L): \_\_\_\_\_ Calculated Flow Rate (L/min): 450 ml/min  
Sample ID: JWNW-06B-0517  
Comments: \_\_\_\_\_

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1239	24.5	7.49	4.50	2.31	-147.2	925	63.72
1242	25.3	7.36	4.95	1.96	-139.0	2100	63.72
1245	26.9	7.25	5.10	1.70	-118.3	176	63.72
1248	26.9	7.25	5.10	1.81	-116.9	78	63.72
1251	27.1	7.24	5.12	1.86	-114.5	62	63.72
1254	27.1	7.23	5.12	1.86	-113.7	58	63.72

Version 012314







## Low-Flow Groundwater Purge and Sample Log

Project Name:

Tervis Webb Superhand Site

Project No.:

T163007200

Well No./ Location ID:

UJW44-07A

Tested By: Blaine Tech

Date: 05/03/2017

Measuring Point Description:

Top of casing

Static Water Level (ft.): 64.00

Total Well Depth (ft.):

70'

Screen Interval (ft.): 60-70

Sample Depth (ft.): 65'

### Water Level Measurement Method:

solinst

Purge Method:

Low flow / pump

Sample Method:

Low flow

Time Start Purge:

1116

Field Filter (micron): ~~1.0 / 0.45 / 0.1 / Other:~~ **Now**

Time End Purge:

1131

Time Sampled:

1132

Volume Purged (L):

Calculated Flow Rate (L/min):

200ml / ml

Sample ID:

JWMW-07A-0517

Comments:

[illegible]



## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWMW-07B Tested By: Blaine Tech Date: 05/03/2017

Measuring Point Description: Top of casing Static Water Level (ft.): 64.31  
Total Well Depth (ft.): 100' Screen Interval (ft.): 90-100 Sample Depth (ft.): 95'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 1025 Field Filter (micron): 1.0/0.45/0.1/Other: None  
Time End Purge: 1049 Time Sampled: 1050  
Volume Purged (L): \_\_\_\_\_ Calculated Flow Rate (L/min): 450 ml / min  
Sample ID: JWMW-07B-0517  
Comments: \_\_\_\_\_

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1028	24.7	7.49	1.79	1.42	-100.1	862	64.37
1031	24.7	7.46	1.78	1.89	-108.6	590	64.37
1034	25.1	7.42	1.78	1.78	-116.0	418	64.37
1037	26.1	7.39	1.82	1.68	-115.6	258	64.39
1040	26.6	7.38	1.86	1.54	-113.5	151	64.39
1043	27.2	7.37	1.88	1.38	-111.2	64	64.40
1046	27.6	7.37	1.89	1.38	-107.6	62	64.40
1049	27.7	7.36	1.90	1.42	-106.9	62	64.40

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name:

Jervis Webb Superfund Site

Project No.:

J163007200

Well No./ Location ID:

JWUW-07C

Tested By:

Blaine Tech

Date:

05/03/2017

Measuring Point Description:

Top of Casing

Static Water Level (ft.):

66.91

Total Well Depth (ft.):

106'

Screen Interval (ft.):

96-106

Sample Depth (ft.):

101'

Water Level Measurement Method:

Solinst

Purge Method:

Low flow / pump

Sample Method:

Low flow

Time Start Purge:

0945

Field Filter (micron):

10/0.45/0.1/Other: None

Time End Purge:

1006

Time Sampled:

1007

Volume Purged (L):

Calculated Flow Rate (L/min):

500ml/min

Sample ID:

JWUW-07C-0517

Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0948	23.6	7.79	1.68	1.57	-97.8	71000	67.02
0951	23.5	7.67	1.69	0.60	-110.7	836	67.05
0954	24.2	7.60	1.70	0.58	-119.6	61	67.05
0957	24.6	7.55	1.73	0.56	-122.5	28	67.05
1000	24.6	7.55	1.72	0.53	-125.0	26	67.05
1003	24.7	7.55	1.71	0.53	-125.1	24	67.05
1006	24.7	7.54	1.70	0.52	-127.3	24	67.05

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name:

Jervis Webb Superfund Site

Project No.:

J163007200

Well No./ Location ID:

JWNW-08A

Tested By:

Blaine Tech

Date:

05/02/2017

Measuring Point Description:

Top of Casing

Static Water Level (ft.):

59.61

Total Well Depth (ft.):

68'

Screen Interval (ft.):

58-68

Sample Depth (ft.):

65'

Water Level Measurement Method:

Solinst

Purge Method:

Low flow / pump

Sample Method:

Low flow

Time Start Purge:

1137

Field Filter (micron):

10/0.45/0.1/Other: None

Time End Purge:

1207

Time Sampled:

1208

Volume Purged (L):

9.0L

Calculated Flow Rate (L/min):

300 ml/min

Sample ID:

JWNW-08A-0517

Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1140	25.4	7.40	2.88	1.19	-175.5	999	59.64
1143	26.3	7.36	2.97	1.20	-176.5	997	59.67
1146	26.3	7.34	3.01	1.28	-177.5	929	59.70
1149	27.2	7.30	3.09	1.31	-179.4	863	59.70
1152	27.8	7.29	3.14	1.43	-180.9	641	59.70
1155	27.6	7.29	3.15	1.33	-180.9	324	59.71
1158	28.1	7.26	3.23	1.08	-181.4	294	59.71
1201	28.3	7.26	3.24	1.01	-182.9	221	59.71
1204	28.5	7.26	3.27	0.97	-182.9	186	59.71
1207	28.0	7.25	3.30	0.94	-183.5	151	59.71

Version 012314



## Low-Flow Groundwater Purge and Sample Log

Project Name:

Jervis Webb Superfund Site

Project No.:

J163007200

Well No./ Location ID:

JWMW-08B

Tested By:

Blaine Tech

Date:

05/02/2017

Measuring Point Description:

Top of casing

Static Water Level (ft.):

60.51

Total Well Depth (ft.):

84

Screen Interval (ft.):

79-84

Sample Depth (ft.):

82'

Water Level Measurement Method:

Solinst

Purge Method:

Low flow / pump

Sample Method:

Low flow

Time Start Purge:

1045

Field Filter (micron):

1.0/0.45/0.1/Other: None

Time End Purge:

1110

Time Sampled:

1111

Volume Purged (L):

9.6L

Calculated Flow Rate (L/min):

400ml/min

Sample ID:

Original: JWMW-08B-0517 @ 1111

Comments:

Duplicate: JWMW-98B-0517 @ 1116

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1048	24.2	7.42	3.24	0.83	-287.4	51	60.58
1052	24.6	7.45	3.30	0.82	-303.6	33	60.58
1055	25.7	7.46	3.43	1.11	-318.0	27	60.58
1058	26.3	7.43	3.56	1.17	-315.8	27	60.58
1102	26.6	7.41	3.66	1.15	-312.0	26	60.58
1104	26.7	7.41	3.70	1.25	-307.0	14	60.58
1107	26.7	7.40	3.71	1.23	-306.1	14	60.58
1110	26.8	7.40	3.71	1.23	-305.0	13	60.58

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWMW-BC Tested By: Blaine Tech Date: 05/02/2017

Measuring Point Description: Top of Casing Static Water Level (ft.): 68.70  
Total Well Depth (ft.): 118' Screen Interval (ft.): 112-122 Sample Depth (ft.):  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 0940 Field Filter (micron): 1.0 / 0.45 / 0.1 / Other:  
Time End Purge: 1010 Time Sampled: 1017  
Volume Purged (L): 18L Calculated Flow Rate (L/min): 500ml/min  
Sample ID: JWMW-OBC-0517  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0943	23.2	7.14	1.88	1.50	-78.7	538	68.72
0946	23.4	7.17	1.83	1.41	-136.5	312	68.72
0949	23.9	7.31	1.07	0.99	-161.0	115	68.73
0952	23.5	7.26	1.03	0.92	-147.4	151	68.73
0955	23.7	7.19	1.14	0.80	-138.8	163	68.74
0958	24.0	7.18	1.20	1.22	-125.9	171	68.74
1001	24.0	7.17	1.27	1.43	-123.9	247	68.74
1004	24.1	7.18	1.49	2.15	-119.5	335	68.74
1007	24.6	7.22	1.70	2.81	-114.3	281	68.74
1010	24.7	7.25	1.72	3.06	-114.2	312	68.74
1013	24.7	7.28	1.62	3.60	-112.2	259	68.74
1016	24.8	7.27	1.61	3.67	-109.3	178	68.74

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name:

Jervis Webb Superfund Site

Project No.:

J163007200

Well No./ Location ID:

JWNW-09A

Tested By:

Blaine Tech

Date:

05/01/2017

Measuring Point Description:

Top of Casing

Static Water Level (ft.):

61.61

Total Well Depth (ft.):

68'

Screen Interval (ft.):

63-68'

Sample Depth (ft.):

65'

Water Level Measurement Method:

Solinst

Purge Method:

Low flow / pump

Sample Method:

Low flow

Time Start Purge:

0830

Field Filter (micron):

1.0 / 0.45 / 0.1 / Other:

Time End Purge:

0900

Time Sampled:

0901

Volume Purged (L):

4.0L

Calculated Flow Rate (L/min):

400ml/min

Sample ID:

JWNW-09A-0517

Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0833	21.9	6.80	5.75	0.43	-60.5	960	61.00
0836	23.0	6.85	5.61	0.44	-65.4	516	61.01
0839	23.7	6.90	5.62	0.47	-72.6	354	61.01
0842	24.4	6.94	5.74	0.47	-78.7	209	61.01
0845	25.4	6.99	5.93	0.44	-90.0	92	61.01
0848	25.5	7.00	5.92	0.42	-94.2	86	61.01
0851	26.2	7.01	5.93	0.41	-95.6	84	61.01
0854	26.5	7.01	6.02	0.39	-99.6	28	61.01
0857	26.6	7.03	6.06	0.38	-101.0	26	61.01
0900	26.8	7.04	6.08	0.38	-101.6	26	61.01

Version 012314



## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWNW-09B Tested By: Blaine Tech Date: 05/01/2017

Measuring Point Description: Top of casing Static Water Level (ft.): 62.46  
Total Well Depth (ft.): 85' Screen Interval (ft.): 83-88 Sample Depth (ft.): 86'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 0925 Field Filter (micron): 2 1.0 / 0.45 / 0.1 / Other: No filter  
Time End Purge: 1004 Time Sampled: 1005  
Volume Purged (L): 6.5L Calculated Flow Rate (L/min): 500ml/min  
Sample ID: JWNW-09B-0517  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0928	21.7	7.54	1.12	0.31	-148.7	71000	62.51
0931	22.5	7.33	1.72	0.27	-143.1	71000	62.53
0934	23.3	7.20	2.47	0.26	-139.4	71000	62.55
0937	23.5	7.20	2.51	0.25	-139.2	71000	62.56
0940	23.9	7.39	1.66	0.22	-153.4	71000	62.56
0943	25.0	7.22	2.26	0.22	-145.4	578	62.56
0946	24.5	7.19	2.59	0.23	-142.9	238	62.56
0949	24.5	7.21	2.63	0.25	-141.6	195	62.56
0952	24.5	7.21	2.63	0.25	-140.9	137	62.56
0955	24.7	7.21	2.62	0.25	-140.0	90	62.56
0958	24.7	7.20	2.64	0.24	-138.5	70	62.56
1001	24.9	7.21	2.63	0.23	-138.6	59	62.56
1004	24.8	7.22	2.62	0.22	-138.6	47	62.56

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name:

Jervis Webb Superfund Site

Project No.:

J163007200

Well No./ Location ID:

JWNW-09C

Tested By:

Blaine Tech

Date:

05/01/2017

Measuring Point Description:

Top of casing

Static Water Level (ft.):

63.40

Total Well Depth (ft.):

100'

Screen Interval (ft.):

95-100'

Sample Depth (ft.):

98'

Water Level Measurement Method:

Solinst

Purge Method:

Low flow / pump

Sample Method:

Low flow

Time Start Purge:

1025

Field Filter (micron):

1.0 / 0.45 / 0.1 / Other: None

Time End Purge:

1107

Time Sampled:

1108

Volume Purged (L):

7.0L

Calculated Flow Rate (L/min):

500ml/min

Sample ID:

JWNW-09C-0517

Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1028	22.1	7.83	0.20	0.35	-170.4	71000	63.74
1031	23.5	7.51	0.30	0.27	-174.5	71000	63.72
1034	23.6	7.35	0.57	0.27	-170.1	978	63.70
1037	24.4	7.33	0.27	0.23	-168.6	678	63.70
1040	24.7	7.37	1.39	0.27	-166.0	531	63.70
1043	24.8	7.38	1.42	0.27	-164.6	463	63.70
1046	24.9	7.39	1.47	0.27	-163.2	303	63.70
1049	25.0	7.40	1.50	0.29	-161.2	227	63.70
1052	25.0	7.40	1.53	0.29	-160.2	192	63.70
1055	24.9	7.40	1.55	0.29	-159.1	145	63.70
1058	25.0	7.40	1.59	0.26	-158.0	96	63.70
1101	24.8	7.40	1.61	0.25	-156.6	73	63.70
1104	24.8	7.40	1.63	0.24	-156.2	68	63.70
1107	24.7	7.40	1.54	0.23	-155.9	50	63.70

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWMW-10 Tested By: Blaine Teich Date: 05/01/17

Measuring Point Description: Top of casing Static Water Level (ft.): 69.99  
Total Well Depth (ft.): 135' Screen Interval (ft.): 130-135' Sample Depth (ft.): 133'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 1147 Field Filter (micron): 1.0/0.45/0.1/Other: ~~None~~  
Time End Purge: 1206 Time Sampled: 1209  
Volume Purged (L): 3.5 L Calculated Flow Rate (L/min): 500 ml/min  
Sample ID: JWMW-10-0517  
Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1150	23.3	7.56	1.41	0.50	-140.5	28	70.07
1153	23.4	7.49	1.42	0.41	-140.3	28	70.07
1156	24.1	7.44	1.44	0.34	-140.7	22	70.07
1159	24.3	7.44	1.45	0.32	-139.6	16	70.07
1202	24.3	7.44	1.45	0.31	-139.8	9	70.07
1205	24.4	7.43	1.46	0.28	-135.5	9	70.07
1208	24.4	7.43	1.46	0.28	-135.3	8	70.07

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name:

Tervis Webb Superfund Site

Project No.:

T163007200

Well No./ Location ID:

✓ JWMW-0113

Tested By:

## Blaine Tech

Date:

5/4/2017

Measuring Point Description:

Top of casing

Static Water Level (ft.):

62.19

Total Well Depth (ft.):

Screen Interval (ft.):

80-90

Sample Depth (ft.):

85

Water Level Measurement Method:

solinst

Purge Method:

Low / low / pump

Sample Method:

Low flow

Time Start Purge:

0820

Field Filter (micron):

~~1.0 / 0.45 / 0.1 / Other:~~ **None**

Time End Purge:

0834

Time Sampled:

0839

Volume Purged (L):

Calculated Flow Rate (L/min):

450 ml/min

Sample ID:

JWMW-11B-0517

Comments:

[illegible]

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name:

Jervis Webb Superfund Site

Project No.:

J163007200

Well No./ Location ID:

JWMW-11C

Tested By:

Blaine Tech

Date:

5/4/2017

Measuring Point Description:

Top of casing

Static Water Level (ft.):

68.87

Total Well Depth (ft.):

128'

Screen Interval (ft.):

118-128

Sample Depth (ft.):

125'

Water Level Measurement Method:

Solinst

Purge Method:

Low flow / pump

Sample Method:

Low flow

Time Start Purge:

0727

Field Filter (micron):

1.0 / 0.45 / 0.1 / Other:

Time End Purge:

0748

Time Sampled:

0749

Volume Purged (L):

Calculated Flow Rate (L/min):

500 ml/min

Sample ID:

JWMW-11C-0517 @ 0749

Comments:

JWMW-11C-0517 @ 0759

Duplicate

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0730	20.3	6.96	1.32	2.83	-4.5	112	68.92
0733	20.5	7.00	1.57	1.50	-76.8	79	68.95
0736	20.6	7.02	3.18	1.10	-113.3	352	68.95
0739	20.7	7.04	3.19	1.13	-113.3	286	68.95
0742	21.2	7.07	3.25	1.09	-115.6	234	68.95
0745	21.3	7.07	3.23	1.16	-119.2	222	68.95
0748	21.3	7.08	3.28	1.17	-119.6	218	68.95

Version 012314



## Low-Flow Groundwater Purge and Sample Log

Project Name:

Jervis Webb Superfund Site

Project No.:

J163007200

Well No./ Location ID:

JJWW-12

Tested By:

Blaine Tech

Date:

5/4/2012

Measuring Point Description:

Top of casing

Static Water Level (ft.):

69.10

Total Well Depth (ft.):

143

Screen Interval (ft.):

138-143

Sample Depth (ft.):

142

Water Level Measurement Method:

Solinst

Purge Method:

Low flow / pump

Sample Method:

Low flow

Time Start Purge:

0958

Field Filter (micron):

1.0/0.45/0.1/Other: R

Time End Purge:

1025

Time Sampled:

1026

Volume Purged (L):

Calculated Flow Rate (L/min):

500ml/min

Sample ID:

JJWW-12-0517

Comments:

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1001	22.4	7.51	3.70	1.40	-93.7	>1000	69.21
1004	22.8	7.40	3.78	1.19	-88.6	>1000	69.23
1007	22.8	7.36	3.75	1.11	-92.8	884	69.23
1010	23.2	7.32	3.80	1.01	-98.5	442	69.23
1013	23.3	7.31	3.83	0.99	-91.4	174	69.23
1016	23.6	7.28	3.90	1.03	-88.7	96	69.24
1019	23.6	7.28	3.91	1.05	-87.2	61	69.24
1022	23.7	7.27	3.92	1.09	-84.1	35	69.24
1025	24.1	7.26	3.95	1.09	-83.9	30	69.24

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## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWNW-13A Tested By: Blaine Tech Date: 05/03/2017

Measuring Point Description: Top of casing Static Water Level (ft.): 60.87  
Total Well Depth (ft.): 70' Screen Interval (ft.): 60-70 Sample Depth (ft.): 65'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 0832 Field Filter (micron): 1.0/0.45/0.1/Other: None  
Time End Purge: 0850 Time Sampled: 0851  
Volume Purged (L): \_\_\_\_\_ Calculated Flow Rate (L/min): 400ml/min  
Sample ID: JWNW-13A-0517  
Comments: \_\_\_\_\_

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0835	21.5	7.26	5.18	0.75	-35.2	71000	60.95
0838	24.7	7.24	5.27	0.77	-38.2	71000	60.95
0841	25.4	7.13	5.59	1.59	-54.2	71000	60.97
0844	25.9	7.13	5.74	1.69	-60.3	71000	60.97
0847	25.9	7.13	5.82	1.72	-61.8	71000	60.97
0850	25.9	7.13	5.87	1.75	-63.8	71000	60.97

Version 012314





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWNW-13B Tested By: Blaine Teich Date: 05/03/2017  
13B

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Measuring Point Description: Top of Casing Static Water Level (ft.): 60.90  
Total Well Depth (ft.): 100' Screen Interval (ft.): 90-100 Sample Depth (ft.): 95'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 0753 Field Filter (micron): 1.0/0.45/0.1/Other: None  
Time End Purge: 0814 Time Sampled: 0815  
Volume Purged (L): \_\_\_\_\_ Calculated Flow Rate (L/min): 400 ml/min  
Sample ID: JWNW-13B-0517  
Comments: \_\_\_\_\_

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0756	20.7	7.50	2.73	1.24	-0.8	65.8	61.07
0759	20.8	7.49	2.74	1.25	-5.1	59.9	61.07
0802	21.1	7.45	2.80	1.21	-15.4	55.1	61.09
0805	21.2	7.45	2.83	1.14	-23.4	52.8	61.09
0808	22.1	7.45	2.93	1.01	-32.3	39.6	61.09
0811	22.2	7.45	2.95	0.99	-33.8	37.5	61.09
0814	22.6	7.45	3.00	0.94	-38.5	27.5	61.09
0817							
0820							

Version 012314



## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWMW-13C Tested By: Blaine Tech Date: 05/03/2018

Measuring Point Description: Top of casing Static Water Level (ft.): 67.51  
Total Well Depth (ft.): 128' Screen Interval (ft.): 118-128 Sample Depth (ft.): 125'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 0658 Field Filter (micron): 10/0.45/0.1/Other: None  
Time End Purge: 0729 Time Sampled: 0730  
Volume Purged (L): \_\_\_\_\_ Calculated Flow Rate (L/min): 500ml/min  
Sample ID: JWMW-13C-0517  
Comments: \_\_\_\_\_

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
0702	20.9	7.47	1.06	1.37	165.8	577	67.58
0705	21.0	7.55	1.08	1.35	157.5	405	67.58
0708	21.5	7.62	1.17	1.32	248.0	228	67.59
0711	21.9	7.71	1.24	1.27	138.1	164	67.59
0714	21.9	7.71	1.25	1.26	137.3	121	67.60
0717	21.9	7.75	1.28	1.25	131.5	115	67.60
0720	22.3	7.80	1.32	1.18	119.0	81	67.60
0723	22.5	7.84	1.34	1.09	105.7	73	67.60
0726	22.7	7.85	1.35	1.04	100.8	73	67.60
0729	22.7	7.78	1.36	1.05	100.3	70	67.60

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# Daily Activity Report (DAR)



Project Name: Southern Avenue Industrial Area Superfund Site

Page 1 of 1

Project No./Task Code: J163006400

Date: 05/01/2017

Description of Work: Soilgas Investigation #1000

Visitors / Subcontractors: Greg Drilling Blaine Tech

Weather: Sunny

## Description of Field Activities

7:00 Met Phil from Blaine Tech at site.

7:30 Set up trip blank (JW-RL01-0517)

08:00 Start JWNW-09A

09:01 Sampled JWNW-09A

09:20 Start purging JWNW-09B, turbidity pretty high.

10:05 Sampled JWNW-09B

10:15 Set up and start purging JWNW-09C

11:08 Sampled JWNW-09C

11:10 Set up at JWNW-10

12:09 Sampled JWNW-10

13:00 Set up at JWNW-04

13:35 Sampled JWNW-04

14:45 Set up at JWNW-05

14:20 Sampled JWNW-05

14:30 Place drums at Cooper Drums

16:00 Drop samples off at FedEx Kiuko

Prepared by: Rogerio Leong

Signature:





## TAILGATE SAFETY MEETING

Date 05/01/2017 Time 700 Project Number: 07163.0068 07163.006400  
Project: KBVM003 SAJA  
Site Location: Lake Nacimiento, San Luis Obispo County, California City of Santa Fe State  
Type of Work: drilling and sampling groundwater  
Chemicals Used (if any) \_\_\_\_\_

### Safety Topics Presented

Protective Clothing/Equipment Level D  
Chemical Hazards Tox  
Physical Hazards slip trip falls  
Emergency Procedures 911  
St. Francis Medical Center (310) 603-5270  
Hospital Twin Cities Community Hospital Phone No. 805-434-3500 Ambulance Phone No. 911  
1400 Las tablas Road, Templeton, CA 93456 3630 Imperial Hwy, Lynwood, CA  
Special Equipment \_\_\_\_\_  
Other \_\_\_\_\_

### Attendees

Printed Name	Signature
<u>Phillip Alonzo</u>	<u>[Signature]</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
Conducted By: <u>Rogelio Leon</u>	Signature: <u>[Signature]</u>
Supervisor: _____	_____

# Daily Activity Report (DAR)

**Gilbane**

Project Name: Jervis Webb

Page 1 of 1

Project No./Task Code:

Date: 05/02/17

Description of Work: Groundwater Sampling

Visitors / Subcontractors: Blaine Tech

Weather: Sunny

## Description of Field Activities

630 At site  
 700 Blaine Tech did not show up. Guy overslept.  
 900 Phil arrives at site, sign off Tailgate form  
 910 Set up traffic cones around JWMW-08  
 900 Set TB (YABG3)  
 1017 Sampled MW-08C  
 1111 Sampled MW-08B  
 1116 Labeled Dup of MW-08B as MW-98B  
 1130 Set up at MW-08A  
 1208 Sampled MW-08A  
 1300 Set up at JWMW-02  
 1337 Sampled JWMW-02  
 1600 At FedEx

*[Handwritten signature]*

Prepared by: Rogelio Lunny

Signature: *[Handwritten signature]*

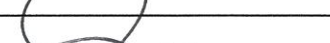


## Safety Topics Presented

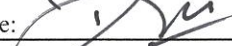
Protective Clothing/Equipment	Level D	
Chemical Hazards	Tox	
Physical Hazards	Slip trip falls	
Emergency Procedures	911	
Hospital	St. Francis Medical Center (310) 603-5270	
	Twin Cities Community Hospital Phone No. 805-434-3500	Ambulance Phone No. 911
	1100 Las Tablas Road, Templeton, CA 93456 3630 Imperial Hwy, Lynwood, CA	
Special Equipment		
Other		

## Attendees

Printed Name  
Phillip Alonzo

Signature  


Conducted By:  
Supervisor:

Signature:  




# Daily Activity Report (DAR)



Project Name: Jervis Webb Superfund Site  
 Project No./Task Code: J163007200  
 Date: 05/03/2017  
 Description of Work: Groundwater Sampling  
 Visitors / Subcontractors: Blaine Tech

Weather: Sunny

## Description of Field Activities

600 At site  
 630 Tailgate at Bell foundry  
 640 Set up at JWMW-13C and trip blank.  
 730 Sample JWMW-13C  
 740 set up at JWMW-13B  
 0815 Sampled JWMW-13B  
 0820 Set up at JWMW-13A  
 0851 Sample JWMW-13A  
 900 Meet TM at Reliable Steel  
 905- Set up traffic control in center lane of Firestone Blvd.  
 930 - Set up at JWMW-07C  
 1007 - Sample JWMW-07C  
 1015 - Set up at JWMW-07B  
 1050 - Sample JWMW-07B  
 1100 - Set up at JWMW-07A  
 1132 - Sampled JWMW-07A  
 1145 - Move to JWMW-06C  
 1236 - Sampled JWMW-06C  
 1245 - Set up at JWMW-06B  
 1255 - Sampled JWMW-06B  
 1305 - Set up at JWMW-06A  
 1338 - Sampled JWMW-06A  
 1600 - Ship coolers at FedEx Kinko

Prepared by:

Rogerio Leung

Signature:



## Safety Topics Presented

## Attendees

Signature

Signature:



# Daily Activity Report (DAR)



Project Name: Jervis Webb

Page 1 of 1

Project No./Task Code: J163007200

Date: 05/04/2017

Description of Work: Groundwater Sampling

Visitors / Subcontractors: Blaine Tech

Weather: Sunny

## Description of Field Activities

630 At ELG facility  
 700 Tailgate safety  
 710 Set up at JWMW-01C in ELG  
 715 Trip blank assigned.  
 749 Sampled JWMW-11C  
 759 Assigned JWMW-01C as duplicate  
 839 Sampled JWMW-01B  
 0926 Sampled JWMW-11A  
 1026 Sampled JWMW-12  
 1035 Moving to JWMW-01 at Firestone Parcel  
 1100 Set up on JWMW-01  
 1146 Sampled JWMW-01  
 1156 Assign dup time and ID as JWMW-01  
 1215 Set up at well JWMW-03  
 1251 Sampled JWMW-03

Prepared by:

Signature:



## TAILGATE SAFETY MEETING

Date 5/4/2017 Time 650 Project Number: J163007200  
Project: Jervis Webb  
Site Location: \_\_\_\_\_  
Type of Work: GW sampling  
Chemicals Used (if any) \_\_\_\_\_

### Safety Topics Presented

Protective Clothing/Equipment Level D  
Chemical Hazards \_\_\_\_\_  
Physical Hazards \_\_\_\_\_  
Emergency Procedures 911  
Hospital St. Francis Medical Phone No. \_\_\_\_\_ Ambulance Phone No. 911  
Special Equipment \_\_\_\_\_  
Other \_\_\_\_\_

### Attendees

Printed Name	Signature
<u>Phillip Alonzo</u>	<u>[Signature]</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
Conducted By: <u>Rogelio Louy</u>	Signature: <u>[Signature]</u>
Supervisor: _____	_____





## Low-Flow Groundwater Purge and Sample Log

Project Name: Jervis Webb Superfund Site Project No.: J163007200  
Well No./ Location ID: JWMW-06C Tested By: Blaine Tech Date: \_\_\_\_\_

Measuring Point Description: Top of casing Static Water Level (ft.): 64.81  
Total Well Depth (ft.): 122' Screen Interval (ft.): 112-122' Sample Depth (ft.): 117'  
Water Level Measurement Method: Solinst  
Purge Method: Low flow / pump Sample Method: Low flow  
Time Start Purge: 1053 Field Filter (micron): 1.0/0.45/0.1/Other: None  
Time End Purge: 1108 Time Sampled: 1109  
Volume Purged (L): 3.0L Calculated Flow Rate (L/min): 200ml/min  
Sample ID: JWMW-06C-0617  
Comments: \_\_\_\_\_

Time	Temp. (°C)	pH	EC (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	DTW (ft.)
1056	23.7	7.56	<del>145.4</del> <sup>145.4</sup>	0.54	-153.8	47	65.10
1059	23.7	7.59	<del>143.1</del> <sup>141.4</sup>	0.52	-163.1	9	65.12
1102	24.5	7.63	1465	0.42	-171.2	9	65.12
1105	24.7	7.63	1464	0.40	-172.4	9	65.12
1108	25.0	7.64	1468	0.38	-174.0	9	65.12

Version 012314





# TAILGATE SAFETY MEETING

Date 5-22-17 Time \_\_\_\_\_ Project Number: \_\_\_\_\_  
Project: Jerry Webb  
Site Location: South Gate on Firestone Blvd  
Type of Work: GW Sampling  
Chemicals Used (if any): HCL

## Safety Topics Presented

Protective Clothing/Equipment Level D  
Chemical Hazards HCL, Well Water  
Physical Hazards Traffic, Slips Trips + Falls  
Emergency Procedures 911  
Hospital \_\_\_\_\_ Phone No. \_\_\_\_\_ Ambulance Phone No. 911  
Special Equipment \_\_\_\_\_  
Other \_\_\_\_\_

## Attendees

Printed Name	Signature
<u>Phillip Alonzo</u>	<u>[Signature]</u>

Conducted By: Sam GRIZZLE Signature: [Signature]  
Supervisor: Sam GRIZZLE



## Summary of Site Survey for Vapor Intrusion Evaluation at Jervis Webb Superfund Site

As part of the vapor intrusion evaluation at Jervis Webb Superfund Site, EPA has performed a site survey at three commercial properties and dwellings directly affected by the VOCs contaminant plume in groundwater. This site survey was conducted on January 16 and 17, 2017. Each survey is documented in the survey forms as attached to this summary page. The recommendations for sampling locations at each property were based on observations and screenings using a photoionization detector (PID) for VOCs collected near the potential pathways, and are summarized below.

Address	Building	Sample Matrix	Specific Locations
9001 Rayo Avenue	Western	Indoor Air	center of the office space
		Indoor Air	near conduit pipes at electrical closet in warehouse
		Indoor Air	near conduit pipe at southwest corner of warehouse
	Center	Indoor Air	office inside the building
	Main Building at East	Outdoor Air	at west of the building
		Indoor Air	northwest office inside warehouse
		Indoor Air	driver's lounge
		Indoor Air	northwest room (cubical area) of the main office
		Indoor Air	southwest room (cubical area) of the main office
9301 Rayo Avenue	Main Building	Outdoor Air	southern corner of the building
		Indoor Air	kitchen of main office area near plumbing penetrations
		Indoor Air	cubical area of main office
		Indoor Air	near a post hole adjacent to electrical panel at warehouse
5030 Firestone Blvd	Main Building and Outside Office Additions	Outdoor Air	western corner of the building
		Indoor Air	inside office at northwest portion of the building
		Indoor Air	small office at northeast corner of the building
		Indoor Air	enclosed office at eastern portion of the building
		Indoor Air	possible storage space at eastern portion of the building
		Indoor Air	eastern portion of the shop area inside building

# Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/16/2017 Site: Jervis Webb Superfund EPA Building Number #: \_\_\_\_\_

## PART 1: General Information

Business Name: Piazza Trucking

Address: 9001 Rayo Avenue  
South Gate CA 90280

### Tenant Information (if applicable)

Contact Name: \_\_\_\_\_ Interviewed: ☐ Yes ☐ No

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Owner/Landlord Information Consent Access ☒ Yes ☐ No Date: 07/25/2016

Name: William Piazza Interviewed: ☐ Yes ☒ No

Phone: (323) 357-1999 Email: betu@piazzatruck.com

Interviewed: Al Aragon (safety Director)

### Building/Business Type (Check appropriate boxes)

☐ School/Day-Care ☐ Retail Store ☒ Office Space ☒ Warehouse ☐ Manufacturing

☒ Single level Office/Warehouse ☒ Multi-story ☐ Strip-mall ☐ Multi-tenant ☒ Warehouse

Other ☐ \_\_\_\_\_

### Building Occupancy

Number of Occupants: ~12 Adults: Gender ratio M/F ~ 7 / 5 General Age ranges: 30-50  
Children: Number at Ages (0-6) \_\_\_\_\_ (6-12) \_\_\_\_\_ (9-12) \_\_\_\_\_ (13-17) \_\_\_\_\_

Days/Hours of occupancy 5/10 Duration of work shifts ~8

Days/Hours of ventilation system operation 5/10

### Building Characteristics

Year/Decade Built: 1950 Number of Stories: Main office has 2 stories (all others are single Units)

Approximate Building Area (square feet): Total 3 buildings: Main - 26,000 (Main) First Floor \_\_\_\_\_

Is there an attached warehouse/shop space? 7,000 (back) describe its use: Maintenance; mechanical repairs

### Foundation Type (Check appropriate boxes)

☒ Slab-on-Grade ☐ Slab-above-Grade (elevated/cap-slab on fill) ☐ Crawl Space ☐ Basement ☐ None

Describe \_\_\_\_\_

### Survey Preparation Information

Preparer's Name: Rogelio Leong Date Prepared: 01/16/2017

Affiliation: Gilbane Federal Phone: (925) 946-3156 Email: rleong@gilbane.co.com

# Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/16/2014 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

## PART 2: Factors Impacting Indoor Air Quality and Sampling

### Questions

Describe renovation activities that have occurred over the last 6 months (what was done, what area, and when): No recent renovations observed

Describe any open combustion in the building. (smoking/incense/candles/cooking/burning)

Not observed

Have site chemicals of concern been used or stored in the building or adjacent warehouse/shop?

☐ Yes ☒ No

Please list the general types of chemicals Not identified: no chlorinated solvents used.

Have any significant amounts of volatile chemicals been used recently? ☐ Yes ☒ No

Please list the chemicals \_\_\_\_\_

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps):

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/sealed plumbing)? Describe:

Several potential pathways observed in all three buildings; the warehouses are significantly well ventilated (positive) windows, doors. Heater was on in main office

### Observations

What is the temperature relative to outside? \_\_\_\_\_

VI is promoted when the interior is warmer than the exterior

What pathways to the subsurface were observed? plumbing; floor drains in main warehouse

Were windows/doors/roll-up doors kept open? Yes; broken windows glass

Increased ventilation from the outside will dilute vapors from the subsurface and may mitigate areas of negative pressure.

Ventilation system status and condition? passive in warehouses

Are intake or exhaust fans being used? yes

Are there ventilation hoods in use? No

Indicated by air moving from the outside in. Negative pressure is the main driving force that moves vapors into a building.

Is there evidence of significant negative pressure? Not observed; significantly warmer inside office

Do parts of the indoor environment appear stagnant? Yes in small office

Vapors may build up in areas with poor ventilation.

Describe any strong odors. sewer in restroom on the farthest back warehouse building

Strong odors may indicate poor ventilation or an indoor air source that may interfere with analysis.

### Building Construction

Building Construction Materials?

☒ Concrete ☐ Concrete Block ☒ Steel ☐ Wood ☐ Other \_\_\_\_\_

Does the building have an at-grade or below-grade garage? No

Does the building have an attached mechanical room? yes (the entire building)

Is the building slab constructed with post-tension concrete? probably not



**Non-Residential Indoor Air Quality Survey Form 21915**

Date: 01/16/2017 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

What are the ceiling heights? >20 feet in Warehouse  
30 feet in office

**Pathway Analysis**

Does the building have a basement or sub-surface structures that are/have: No  
☐ Unfinished ☐ Exposed soil ☐ Damp or flooded ☐ Unsealed utility lines ☐ Other \_\_\_\_\_

Are there utilities that penetrate the slab that may be conduits for soil vapor? several

Are these:

Connected to subsurface vaults? No

Connected to utilities closer to potential VI sources? Possible on back building

In areas where pressure differential would cause air to flow through them? yes

Is there non-ventilated space in the building (maintenance / electrical / server rooms)? office

Is this space occupied? yes At what frequency/duration? operation hours

Are there potential pathways in this space? possible

Are there significant heat sources or other systems that may generate a significant negative pressure near the floor/slab? not observed

Are there elevators in the building? No

If the elevators are hydraulic plunger how deep does the piston penetrate below the slab? N/A

Are there significant utilities penetrating the floor/slab? plumbing; electrical conduits

What is the condition of the foundation/slab? old but in good condition

Was the building constructed with a subslab system or barrier? No

Are there floor drains? yes; two in the main Warehouse building

If the foundation design specifications and/or as-built drawings are available attach.

**Other Information** (that may be of importance in understanding the indoor air quality)

See attached report

**Potential Sampling Locations**

General notes on potential sample locations and type. Tentative sampling date(s) and preferred times.

See attached report

On a separate page, draw/attach the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, ventilation system components, indoor air contaminant sources and field instrument readings.

Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/16/2017 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

See Attached Report

9001 Rayo

West building ~ 7,000 square feet



The main part of this building is a large warehouse space used for storage. The northern portion of the building, facing Firestone Blvd., is a small office with several office spaces, two restrooms and an attached vault that is built out into the warehouse space. The office space is used to store residential items belonging to the business owner. The office space has some leaks in to roof that were evident from the previous day's rain.

### **Ventilation**

The warehouse has significant passive ventilation, it is not well insulated and there are open and broken windows.

The office space is not well ventilated, does not have an operating ventilation system, and a strong sewer/mildew odor was present.

### **Pathways**

There are several potential pathways through the slab in the warehouse area including current and former plumbing conduits. There are also several penetrations in the electrical closet, located in the northwest portion of the warehouse space.



The office space had two restrooms that were being used for storage. The fixtures were still in place and the traps appeared to be dry. It is likely that these are a source of sewer vapor entry. No other significant pathways were observed.

#### **Chemicals**

No chemical usage or storage was observed in this building.

#### **Sample Locations**

One ambient air sample should be centrally collected from the office space to determine the potential for vapor intrusion into this area.

One to two samples could be collected in the warehouse area, near the potential subsurface pathways.

#### **Center building ~ 2,000 square feet**

The small central building on this property is used as a machine/repair shop for truck and trailer parts. It consists of two workshop areas, a parts storage area, and an office that is accessed from the central workshop area.

#### **Ventilation**

The workshops spaces have significant passive ventilation. The office is poorly ventilated when the door connecting it to the central work area is closed.

#### **Pathways**

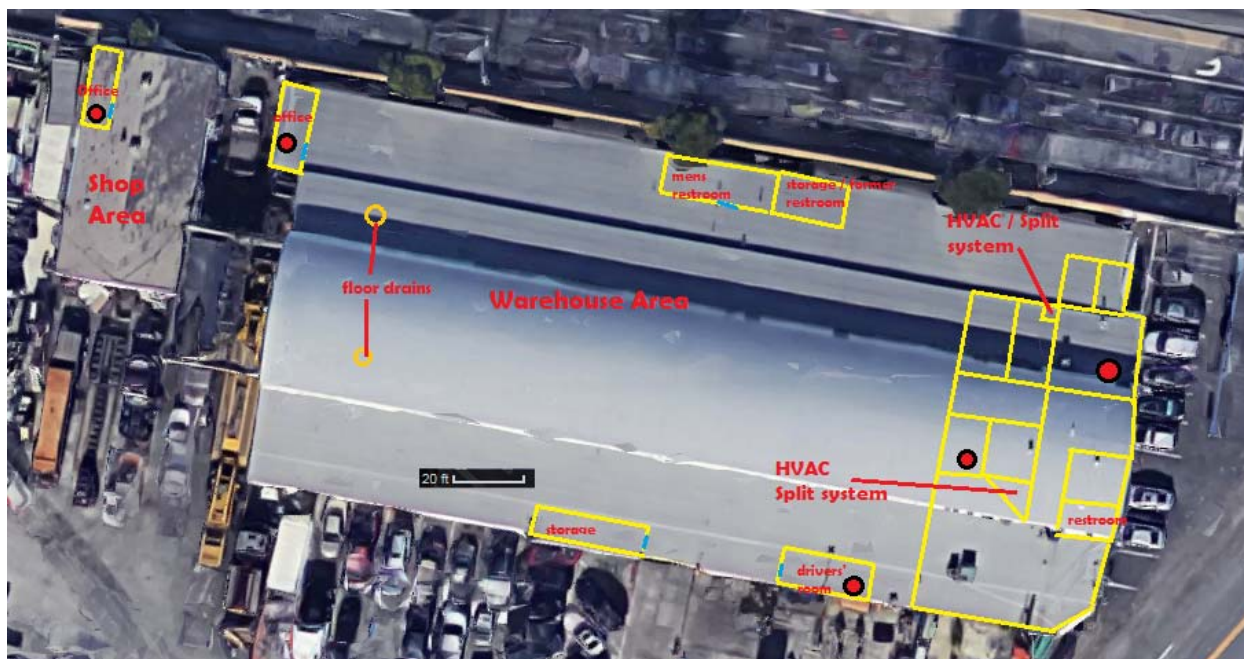
No pathways were noted.

#### **Chemicals**

A significant number of chemicals are used in the workshop areas. No chlorinated chemicals were observed, but a full chemical inventory was not conducted.

#### **Sample Locations**

If this building is sampled it is recommended that a sample be collected in the office area. Preferably the sample should be collected with the door closed.



### **East/main building ~26,000 square feet**

The main building consists of a large warehouse space with a two story office area at the east side of the building. There is also a small office addition at the northwest corner of the building.

There are several enclosed areas internal to the warehouse including a drivers' lounge, storage spaces and a large men's restroom and locker area.

The office space includes 3 to 4 individual offices, a restroom, an entry area, a conference room, and two cubical areas.

### **Ventilation**

The warehouse has good passive ventilation due to leaky construction and open doors. The office space to the northwest and the driver's lounge are not well ventilated. The men's restroom door appears to always be open to the warehouse and the space feels well ventilated.

The main office space is served by three ventilation systems. Two, located in interior closets, appear to be residential split systems that do not provide outdoor air. These systems serve the north and south portions of the office space. A third system that serves the central and front portion of the building was not observed and may or may not provide outdoor air.

### **Pathways**

Other than plumbing conduits the only potential pathways observed were large floor drains in the warehouse space.

### **Chemicals**

No significant chemicals or chemical usage were noted in this area. However, a diesel motor was operated during the visit and cars did have access to the interior warehouse space.

**Sample Locations**

Potential sample locations are; one in the northwest office space, one in the drivers' lounge, and two in the main office area. The office samples should represent the two ventilation zones that do not provide for outdoor (one in the northwest cubical area and one in the southwest office/cubical area).



Date: 01/16/2017 Site: Jerry Webb EPA Building Number #: \_\_\_\_\_

Instructions: List items/products in the building or the attached warehouse/shop that may contain site compounds of concern. These should be removed prior to sampling. Also, list items/products that that give off significant volatiles. These may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals.

significant number of chemical products within the Center Building. However, no chlorinated products were observed and a full list inventory was not conducted.

[illegible]

# Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/16/2017 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

## PART 4: Building Heating/Cooling/Ventilation Systems

### Systems Present (Main office only)

What types of systems are used for heating, cooling and ventilation? Check all that apply.

- ☐ Air Handler(s) ☐ Package Units ☒ Window/Wall systems ☐ Radiant heating (electric or water/steam)  
☐ Evaporative Coolers ☐ Heat pump ☐ Built-up ☐ None Comments \_\_\_\_\_

Do the systems present provide make-up/fresh air? (Y/N) Y

Have the systems been evaluated for  
ASHRAE Standard 62 compliance? Unknown

Fresh air should be supplied in all commercial/industrial/institutional settings. ASHRAE Standard 62, *Ventilation for Acceptable Indoor Air Quality*, has guidelines on how much air should be supplied. Meeting these requirements generally helps to mitigate VI impacts.

When was the system last tested and balanced? N/A (attach report if available)

Is the ventilation system automated (building automation system)? Yes

If yes is the data recorded or can it be recorded? No

Note that the ventilation settings should be evaluated in the automation system and verified manually where possible.

Automation systems can be used to record settings during sampling and to verify HVAC operation where an HVAC remedy is required

### System operations

For each of the ventilation systems describe how is outdoor air supplied?

- Economizers: \_\_\_\_\_
  - minimum and maximum settings cfm or % \_\_\_\_\_
- Manual adjustable outdoor air intakes \_\_\_\_\_
  - Settings \_\_\_\_\_
- Fixed outdoor air intakes? Yes
- Potential outdoor air intake not installed? \_\_\_\_\_
- Outdoor air intake not easily installed (e.g., split system, radiant heating) split system

How frequently are the ventilation systems serviced? unknown

Generally systems should be serviced quarterly to verify performance.

Days and hours of operation for each ventilation system Operation hours

Do any of the ventilation systems operate during nights and weekends? \_\_\_\_\_ reduced settings? \_\_\_\_\_

Are the temperature / ventilation settings locked or routinely adjusted by the occupants? adjustable (control on wall)

What are the temperature settings? (note if seasonally variable) Days \_\_\_\_\_ Nights \_\_\_\_\_  
Weekends \_\_\_\_\_

If there is an economizer, does the system control outdoor air supply using: (check all that apply)

- ☐ Outdoor air temperature/enthalpy ☐ CO<sub>2</sub> concentration ☐ Other \_\_\_\_\_

Date: 01/16/2017 Site: Juvis Webb EPA Building Number #: \_\_\_\_\_

Is the power exhaust setting dependent on ☐ economizer damper position ☐ Static pressure

Does the system use variable air volume distribution (VAV)? No

Does the ventilation system have any underground components? No

Is ventilation being supplied or returned under a false floor above the building slab? No

Are ducting components routed through a basement, crawlspace, or utility vault area? No

Is a boiler or heater present in a basement or crawlspace? No describe \_\_\_\_\_

Where are the outdoor air intakes located? Roof

Are any intakes near sources of chemicals / sewer vents? No

Are there carbon filters present in the ventilation system? Unknown

What make and model of filters are present and how often are they changed? \_\_\_\_\_

[illegible]



Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/16/2016 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

Additional Notes:

Not Used

Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/17/2017 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

**PART 1: General Information**

Business Name: Reliable Steel Building Products Inc.

Address: 9301 Rayo Avenue  
South Gate CA 90280

**Tenant Information** (if applicable)

Contact Name: \_\_\_\_\_ Interviewed: ☐ Yes ☐ No

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**Owner/Landlord Information** Consent Access ☒ Yes ☐ No Date: 06/10/2016

Name: Jeff Palmer Interviewed: ☐ Yes ☐ No

Phone: (323) 566-5000 Email: reliablejeff@verizon.net

**Building/Business Type** (Check appropriate boxes)

☐ School/Day-Care ☐ Retail Store ☒ Office Space ☒ Warehouse ☒ Manufacturing  
☒ Single level Office/Warehouse ☐ Multi-story ☐ Strip-mall ☐ Multi-tenant ☐ Warehouse

Other ☐ \_\_\_\_\_

**Building Occupancy**

Number of Occupants: 1/10 Adults: Gender ratio M/F 8/2 General Age ranges: 30-50  
Children: Number at Ages (0-6) \_\_\_\_\_ (6-12) \_\_\_\_\_ (9-12) \_\_\_\_\_ (13-17) \_\_\_\_\_

Days/Hours of occupancy 10 Duration of work shifts 8

Days/Hours of ventilation system operation Set Automatically; manually turn off on weekends

**Building Characteristics**

Year/Decade Built: 1950 Number of Stories: 1

Approximate Building Area (square feet): Total 16,600 First Floor \_\_\_\_\_

Is there an attached warehouse/shop space? Yes describe its use: used for cutting and pressing steel

**Foundation Type** (Check appropriate boxes)

☒ Slab-on-Grade ☐ Slab-above-Grade (elevated/cap-slab on fill) ☐ Crawl Space ☐ Basement ☐ None

Describe Concrete or cemented floor throughout

**Survey Preparation Information**

Preparer's Name: Rogerio Leong Date Prepared: 01/17/2017

Affiliation: Gilbane Federal Phone: (925) 946-3156 Email: rleong@gilbane.co.com

# Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/17/2016 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

## PART 2: Factors Impacting Indoor Air Quality and Sampling

### Questions

Describe renovation activities that have occurred over the last 6 months (what was done, what area, and when): No new renovations

Describe any open combustion in the building. (smoking/incense/candles/cooking/burning)

Not observed  
Have site chemicals of concern been used or stored in the building or adjacent warehouse/shop?

☐ Yes ☒ No

Please list the general types of chemicals \_\_\_\_\_

Have any significant amounts of volatile chemicals been used recently? ☐ Yes ☒ No

Please list the chemicals \_\_\_\_\_

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps):

Not existent

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/sealed plumbing)? Describe:

All observed plumbing were being upgraded with sheet rock wall removed.

### Observations

What is the temperature relative to outside? 4-70°F

VI is promoted when the interior is warmer than the exterior

What pathways to the subsurface were observed? plumbing in office and restrooms

Were windows/doors/roll-up doors kept open? \_\_\_\_\_

Increased ventilation from the outside will dilute vapors from the subsurface and may mitigate areas of negative pressure.

Ventilation system status and condition? HVAC system with no outdoor air recirculation

Are intake or exhaust fans being used? No

Are there ventilation hoods in use? No

Indicated by air moving from the outside in. Negative pressure is the main driving force that moves vapors into a building.

Is there evidence of significant negative pressure? No

Do parts of the indoor environment appear stagnant? Yes

Vapors may build up in areas with poor ventilation.

Describe any strong odors. No strong odors detected

Strong odors may indicate poor ventilation or an indoor air source that may interfere with analysis.

### Building Construction

Building Construction Materials?

☐ Concrete ☐ Concrete Block ☒ Steel ☐ Wood ☐ Other \_\_\_\_\_

Does the building have an at-grade or below-grade garage? No

Does the building have an attached mechanical room? No

Is the building slab constructed with post-tension concrete? unknown, likely not



# Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/17/2017 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

What are the ceiling heights? office enclosure inside warehouse with tall ceilings

## Pathway Analysis

Does the building have a basement or sub-surface structures that are/have:

☐ Unfinished ☐ Exposed soil ☐ Damp or flooded ☐ Unsealed utility lines ☒ Other small drainage in center

Are there utilities that penetrate the slab that may be conduits for soil vapor? plumbings

Are these:

Connected to subsurface vaults? No

Connected to utilities closer to potential VI sources? No

In areas where pressure differential would cause air to flow through them? Possibly

Is there non-ventilated space in the building (maintenance / electrical / server rooms)? No, open ventilated

Is this space occupied? \_\_\_\_\_ At what frequency/duration? \_\_\_\_\_

Are there potential pathways in this space? \_\_\_\_\_ ,

Are there significant heat sources or other systems that may generate a significant negative pressure near the floor/slab? No

Are there elevators in the building? No

If the elevators are hydraulic plunger how deep does the piston penetrate below the slab? \_\_\_\_\_

Are there significant utilities penetrating the floor/slab? plumbings

What is the condition of the foundation/slab? old but fairly good condition

Was the building constructed with a subslab system or barrier? No

Are there floor drains? yes along the center of warehouse

If the foundation design specifications and/or as-built drawings are available attach.

**Other Information** (that may be of importance in understanding the indoor air quality)

see attached report

## Potential Sampling Locations

General notes on potential sample locations and type. Tentative sampling date(s) and preferred times.

see attached report

On a separate page, draw/attach the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, ventilation system components, indoor air contaminant sources and field instrument readings.

Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/12/2012 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

**9301 Rayo ~30,000 square feet**

This building consists of a large warehouse and production area and a small office area in the southwest corner of the building. The production operations in this building is mainly cutting and folding metal.

The office space consists of one office, a reception area, an office/cubical area, two restrooms, and a kitchen area. There is also a men's restroom/locker room area that opens to the warehouse space. All the plumbing in these spaces was in the process of being upgraded and sheet rock had been removed.





## Ventilation

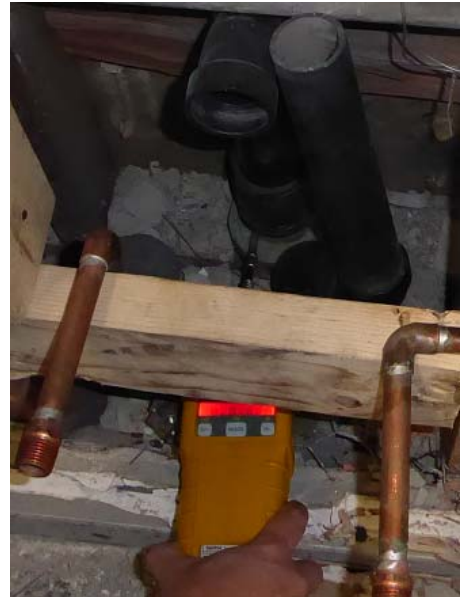
The warehouse space has significant passive ventilation due to the building construction and the warehouse doors being kept open.

The office space has one HVAC system that does not provide outdoor air and is programmed to come on if demanded.

## Pathways

There were significant exposed plumbing pathways in the office area. Based on a PID reading, there appeared to be vapors from the subsurface coming in from around the exposed drain in the kitchen area.

In the warehouse there is an electrical trench that runs down the center of the building to the electrical hook-ups in the southern/central portion of the building. There are also several posts in this area that penetrate the slab and a hole where a post was removed. Vapor intrusion was evident in from the hole where the post had been removed. This is also an area of the warehouse where there is less passive ventilation due to it being between a parked recreational trailer and the electrical panels.



## Chemicals

The primary chemicals used are lubricating and cutting oils. There is also a large dewar of liquid oxygen that is used by some of the cutting and welding tools. No chlorinated chemicals were observed.

**Sample Locations**

Two samples should be collected in the office area. One in the kitchen area near the plumbing penetrations and one in the cubical space.

One sample should be collected in the warehouse near the electrical panels and hole in the slab. An additional pathway sample could be collected from inside the hole in the slab.

Date: 01/12/2017 Site: Javis Webb EPA Building Number #: \_\_\_\_\_

Instructions: List items/products in the building or the attached warehouse/shop that may contain site compounds of concern. These should be removed prior to sampling. Also, list items/products that that give off significant volatiles. These may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals.

No chlorinated chemicals observed

[illegible]



# Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/17/2012 Site: Jrovi Webb EPA Building Number #: \_\_\_\_\_

## PART 4: Building Heating/Cooling/Ventilation Systems

### Systems Present

What types of systems are used for heating, cooling and ventilation? Check all that apply.

- ☐ Air Handler(s) ☐ Package Units ☒ Window/Wall systems ☐ Radiant heating (electric or water/steam)  
☐ Evaporative Coolers ☐ Heat pump ☐ Built-up ☐ None Comments \_\_\_\_\_

Do the systems present provide make-up/fresh air? (Y/N) N

Have the systems been evaluated for  
ASHRAE Standard 62 compliance? Unknown

Fresh air should be supplied in all commercial/industrial/institutional settings. ASHRAE Standard 62, *Ventilation for Acceptable Indoor Air Quality*, has guidelines on how much air should be supplied. Meeting these requirements generally helps to mitigate VI impacts.

When was the system last tested and balanced? Not available (attach report if available)

Is the ventilation system automated (building automation system)? Yes

If yes is the data recorded or can it be recorded? No

Note that the ventilation settings should be evaluated in the automation system and verified manually where possible.

Automation systems can be used to record settings during sampling and to verify HVAC operation where an HVAC remedy is required

### System operations

For each of the ventilation systems describe how is outdoor air supplied?

- Economizers: \_\_\_\_\_
  - minimum and maximum settings cfm or % \_\_\_\_\_
- Manual adjustable outdoor air intakes \_\_\_\_\_
  - Settings \_\_\_\_\_
- Fixed outdoor air intakes? \_\_\_\_\_
- Potential outdoor air intake not installed? Non-existent
- Outdoor air intake not easily installed (e.g., split system, radiant heating) \_\_\_\_\_

How frequently are the ventilation systems serviced? Unknown

Generally systems should be serviced quarterly to verify performance.

Days and hours of operation for each ventilation system it is manually turned on

Do any of the ventilation systems operate during nights and weekends? \_\_\_\_\_ reduced settings? \_\_\_\_\_

Are the temperature / ventilation settings locked or routinely adjusted by the occupants? possibly (controller on wall)

What are the temperature settings? (note if seasonally variable) Days \_\_\_\_\_ Nights \_\_\_\_\_  
Weekends \_\_\_\_\_

If there is an economizer, does the system control outdoor air supply using: (check all that apply)

- ☐ Outdoor air temperature/enthalpy ☐ CO<sub>2</sub> concentration ☐ Other \_\_\_\_\_

Date: 01/17/2012 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

[illegible]

Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/17/2017 Site: Jones Webb EPA Building Number #: \_\_\_\_\_

Additional Notes:

Not used



# Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/17/2017 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

## PART 1: General Information

Business Name: Mike Palm Club, LLC

Address: 5030 Firestone Blvd  
South Gate CA 90280

### Tenant Information (if applicable)

Contact Name: \_\_\_\_\_ Interviewed: ☐ Yes ☐ No

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Owner/Landlord Information, Consent Access ☐ Yes ☐ No Date: 10-6-2016

Name: Mike Mudaris (manager) Interviewed: ☒ Yes ☐ No

Phone: 818-219-3464 Email: geraldrome@gmail.com

### Building/Business Type (Check appropriate boxes)

☐ School/Day-Care ☐ Retail Store ☒ Office Space ☒ Warehouse ☐ Manufacturing  
☒ Single level Office/Warehouse ☐ Multi-story ☐ Strip-mall ☐ Multi-tenant ☒ Warehouse

Other ☐ \_\_\_\_\_

### Building Occupancy (Apparently multiple tenants)

Number of Occupants: \_\_\_\_\_ Adults: Gender ratio M/F \_\_\_\_\_ / \_\_\_\_\_ General Age ranges: \_\_\_\_\_  
Children: Number at Ages (0-6) \_\_\_\_\_ (6-12) \_\_\_\_\_ (9-12) \_\_\_\_\_ (13-17) \_\_\_\_\_

Days/Hours of occupancy 6/10 Duration of work shifts 8

Days/Hours of ventilation system operation \_\_\_\_\_

### Building Characteristics

Year/Decade Built: 1950s Number of Stories: 1

Approximate Building Area (square feet): Total ~15,000 First Floor \_\_\_\_\_

Is there an attached warehouse/shop space? Yes describe its use: Warehouse surrounded by smaller office and rooms

### Foundation Type (Check appropriate boxes)

☒ Slab-on-Grade ☐ Slab-above-Grade (elevated/cap-slab on fill) ☐ Crawl Space ☐ Basement ☐ None

Describe \_\_\_\_\_

### Survey Preparation Information

Preparer's Name: Rogelio Leong Date Prepared: 01/17/2017

Affiliation: Gilbane Federal Phone: (925) 946-3156 Email: rleong@gilbane.co.com

# Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/17/2012 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

## PART 2: Factors Impacting Indoor Air Quality and Sampling

### Questions

Describe renovation activities that have occurred over the last 6 months (what was done, what area, and when): NO recent renovations

Describe any open combustion in the building. (smoking/incense/candles/cooking/burning)

Not observed

Have site chemicals of concern been used or stored in the building or adjacent warehouse/shop?

☐ Yes ☒ No

Please list the general types of chemicals Auto body repair shop with various spray paints

Have any significant amounts of volatile chemicals been used recently? ☒ Yes ☐ No

Please list the chemicals paint and cleaners on shelves but no chlorinated solvents

Describe any instance of water/groundwater present in the basement/crawlspace (including sumps):

Not observed

Are there conduits for sewer gases to enter the building (dry p-traps, open clean-outs, abandoned hook-ups, poorly installed/sealed/seated plumbing)? Describe:

plumbing pipes in restroom only; no significant pathways observed.

### Observations

What is the temperature relative to outside? similar Warehouse/office

VI is promoted when the interior is warmer than the exterior

What pathways to the subsurface were observed? restroom pipes

Were windows/doors/roll-up doors kept open? Warehouse: yes office: no

Ventilation system status and condition? Non-existent / poor ventilation in office and rooms

Are intake or exhaust fans being used? No

Are there ventilation hoods in use? No

Is there evidence of significant negative pressure? Not observed

Do parts of the indoor environment appear stagnant? yes. Mainly in enclosed office

Describe any strong odors. spray paint

Increased ventilation from the outside will dilute vapors from the subsurface and may mitigate areas of negative pressure.

Indicated by air moving from the outside in. Negative pressure is the main driving force that moves vapors into a building.

Vapors may build up in areas with poor ventilation.

Strong odors may indicate poor ventilation or an indoor air source that may interfere with analysis.

### Building Construction

Building Construction Materials?

☐ Concrete ☐ Concrete Block ☒ Steel ☒ Wood ☐ Other \_\_\_\_\_

Does the building have an at-grade or below-grade garage? at grade

Does the building have an attached mechanical room? yes within the warehouse

Is the building slab constructed with post-tension concrete? probably not

# Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/12/2017 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

What are the ceiling heights? office ~10'

Pathway Analysis Warehouse area < 20'-30'

Does the building have a basement or sub-surface structures that are/have:

☐ Unfinished ☐ Exposed soil ☐ Damp or flooded ☐ Unsealed utility lines ☐ Other \_\_\_\_\_

Are there utilities that penetrate the slab that may be conduits for soil vapor? yes

Are these:

Connected to subsurface vaults? No

Connected to utilities closer to potential VI sources? possibly

In areas where pressure differential would cause air to flow through them? \_\_\_\_\_

Is there non-ventilated space in the building (maintenance / electrical / server rooms)? Yes mainly the small office

Is this space occupied? yes At what frequency/duration? business hours 8-5

Are there potential pathways in this space? Not observed

Are there significant heat sources or other systems that may generate a significant negative pressure near the floor/slab? inside of northernmost office of a dispatcher

Are there elevators in the building? No has a small heating/A/C

If the elevators are hydraulic plunger how deep does the piston penetrate below the slab? \_\_\_\_\_

Are there significant utilities penetrating the floor/slab? Not significant

What is the condition of the foundation/slab? poor at warehouse, very uneven, flooding

Was the building constructed with a subslab system or barrier? No

Are there floor drains? Not observed

If the foundation design specifications and/or as-built drawings are available attach.

Other Information (that may be of importance in understanding the indoor air quality)

see attached Report for further details

## Potential Sampling Locations

General notes on potential sample locations and type. Tentative sampling date(s) and preferred times.

see attached report for further details

On a separate page, draw/attach the general floor plan of the building and denote potential locations of sample collection. Indicate locations of doors, windows, ventilation system components, indoor air contaminant sources and field instrument readings.



Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/17/2017 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

See attached Report for further details

### **5030 Firestone ~ 15,000 square feet**

This building consists of a large open shop area used to store cars and to do auto body repair and painting. Some of the doors have been removed or are not used so that the building is partially open. There is one enclosed office area inside the shop in the northwest corner. There are several additions to the shop on the northeast corner that include enclosed restrooms, storage space, and office space. There is also a small exterior office in this area.



### **Ventilation**

The shop area is partially open to the outside providing significant passive ventilation. The enclosed spaces inside and attached to the shop area are poorly ventilated.

### **Pathways**

No significant pathways were observed.

### **Chemicals**

Paints and cleaners were present in the shop area; no chlorinated solvents were observed.

**Sample Locations**

The small office at the northeast corner of the building is continuously occupied during business hours and poorly ventilated, it should be a priority for sample collection.

One or two samples should be collected in the enclosed office and storage spaces on the east side of the building.

One sample should be collected inside the office in the northwest portion of the building.

If a sample is collected inside the shop area it should be collected from the eastern portion of the building where there is less passive ventilation.



Date: 01/17/2017 Site: Jervis Webb EPA Building Number #: \_\_\_\_\_

Instructions: List items/products in the building or the attached warehouse/shop that may contain site compounds of concern. These should be removed prior to sampling. Also, list items/products that that give off significant volatiles. These may interfere with chemical analysis. Include chemicals that may be tracked into the house from an occupant. This could be chemical usage at work or in an attached workshop/garage. A portable instrument, such as a photo-ionization detector (PID) can be used to help locate volatile chemicals.

Several paints and cleaners in shelves in the repair shop area within the warehouse - NO chlorinated solvents products observed

[illegible]

# Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/17/2017 Site: Jarvis Webb EPA Building Number #: \_\_\_\_\_

## PART 4: Building Heating/Cooling/Ventilation Systems

### Systems Present

What types of systems are used for heating, cooling and ventilation? Check all that apply.

- ☐ Air Handler(s) ☐ Package Units ☒ Window/Wall systems ☐ Radiant heating (electric or water/steam)  
☐ Evaporative Coolers ☐ Heat pump ☐ Built-up ☐ None Comments \_\_\_\_\_

No HVAC system identified in this building

Do the systems present provide make-up/fresh air? (Y/N) N

Have the systems been evaluated for ASHRAE Standard 62 compliance? No

Fresh air should be supplied in all commercial/industrial/institutional settings. ASHRAE Standard 62, *Ventilation for Acceptable Indoor Air Quality*, has guidelines on how much air should be supplied. Meeting these requirements generally helps to mitigate VI impacts.

When was the system last tested and balanced? Not available (attach report if available)

Is the ventilation system automated (building automation system)? No

If yes is the data recorded or can it be recorded? No

Automation systems can be used to record settings during sampling and to verify HVAC operation where an HVAC remedy is required

Note that the ventilation settings should be evaluated in the automation system and verified manually where possible.

### System operations

For each of the ventilation systems describe how is outdoor air supplied?

- Economizers: \_\_\_\_\_
  - minimum and maximum settings cfm or % \_\_\_\_\_
- Manual adjustable outdoor air intakes \_\_\_\_\_
  - Settings \_\_\_\_\_
- Fixed outdoor air intakes? \_\_\_\_\_
- Potential outdoor air intake not installed? \_\_\_\_\_
- Outdoor air intake not easily installed (e.g., split system, radiant heating) \_\_\_\_\_

How frequently are the ventilation systems serviced? \_\_\_\_\_

Generally systems should be serviced quarterly to verify performance.

Days and hours of operation for each ventilation system \_\_\_\_\_

Do any of the ventilation systems operate during nights and weekends? \_\_\_\_\_ reduced settings? \_\_\_\_\_

Are the temperature / ventilation settings locked or routinely adjusted by the occupants? \_\_\_\_\_

What are the temperature settings? (note if seasonally variable) Days \_\_\_\_\_ Nights \_\_\_\_\_  
Weekends \_\_\_\_\_

If there is an economizer, does the system control outdoor air supply using: (check all that apply)

- ☐ Outdoor air temperature/enthalpy ☐ CO<sub>2</sub> concentration ☐ Other \_\_\_\_\_

Date: 01/17/2012 Site: Jarvis Webb EPA Building Number #: \_\_\_\_\_

[illegible]



Non-Residential Indoor Air Quality Survey Form 21915

Date: 01/17/2017 Site: Jarvis Webb EPA Building Number #: \_\_\_\_\_

Additional Notes:

Not used



## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000		Date: 09/09/2017
Project Name: Jervis Webb Superfund Site		Field Crew: Rogerio Leong + EPA
Location ID: Piazza Trucking		Sample ID: 9001RAY0-IA01-0917
Site ID:		Event ID: IA-2017
Sample Location		
Northing: NA	Easting: NA	Height: 3'
Sampling System		
Canister Serial No.: 113	Location Sketch: Former Restroom By piping exposed in wall Warehouse Set on trash (Piazza Trucking) can	
Canister Certification Date: 08/24/2017		
Canister Leak Check Date: 09/09/2017		
Flow Controller Serial No.: 05021		
Sampling Log		
Parameter	Start	Stop
Time	7:29	1503
Canister Pressure (in Hg)	27.5	0
Ambient Temperature	80s	
Flow Rate (mL/min)	100	
Weather Conditions: sunny		
Observations and Comments: Check @ 1200 Pressure was at ~15		
Laboratory Analytical Method(s): VOCs TO-15		
Sampler's Printed Name: Rogerio Leong		Sampler's Signature:



## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000		Date: 09/09/2017
Project Name: Jervis Webb Superfund Site		Field Crew: Rogerio Leong + EPA
Location ID: Piazza Trucking		Sample ID: 9001RA/0-IA03-0917
Site ID:		Event ID: IA-2017
Sample Location		
Northing: NA	Easting: NA	Height: 3'
Sampling System		
Canister Serial No.: 128	Location Sketch: Inside office mail room set at chair height Piazza Trucking	
Canister Certification Date: 08/24/2017		
Canister Leak Check Date: 09/09/2017		
Flow Controller Serial No.: 05034		
Sampling Log		
Parameter	Start	Stop
Time	07:39	1506
Canister Pressure (in Hg)	29.0	2.0
Ambient Temperature	80s	
Flow Rate (mL/min)	100	100
Weather Conditions: Sunny 80s-90s		
Observations and Comments: Pressure was at around 17 at noon		
Laboratory Analytical Method(s): TO-15 VOCs SIA		
Sampler's Printed Name: Rogerio Leong		Sampler's Signature: 





## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000		Date: 09/09/2017
Project Name: Jervis Webb Superfund Site		Field Crew: Rogerio Leong + EPA
Location ID: Piazza Trucking		Sample ID: 9001RAYO-IA02-0917
Site ID:		Event ID: IA-2017
Sample Location		
Northing: NA	Easting: NA	Height: 2'
Sampling System		
Canister Serial No.: 135	Location Sketch: By Electric Panel warehouse Set on a chair	
Canister Certification Date: 08/24/2017		
Canister Leak Check Date: 09/09/2017		
Flow Controller Serial No.: 05031		
Sampling Log		
Parameter	Start	Stop
Time	7:36	1505
Canister Pressure (in Hg)	27.0	1.5
Ambient Temperature	80s	
Flow Rate (mL/min)	100	100
Weather Conditions: Sunny ~80°F		
Observations and Comments: Pressure was at 15 at noon		
Laboratory Analytical Method(s): TO-15 SIM		
Sampler's Printed Name: Rogerio Leong		Sampler's Signature: 



## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000		Date: 09/09/2017
Project Name: Jervis Webb Superfund Site		Field Crew: Rogerio Leong + EPA
Location ID: 5030 Firstone Blvd		Sample ID: 5030 FIRE-0A01-0917
Site ID:		Event ID: 0A-2017
Sample Location		
Northing:	Easting:	Height: 4'
Sampling System		
Canister Serial No.: 450	Location Sketch: Outdoor air Western corner	
Canister Certification Date: 08/25/2017		
Canister Leak Check Date: 09/09/2017		
Flow Controller Serial No.: 05013		
Sampling Log		
Parameter	Start	Stop
Time	825	1522
Canister Pressure (in Hg)	28.0	0
Ambient Temperature	80s	90s
Flow Rate (mL/min)	100	100
Weather Conditions: Sunny ~80°F		
Observations and Comments: Pressure at 14 at noon To-15 Vocs SIM		
Laboratory Analytical Method(s): To-15 Vocs SIM		
Sampler's Printed Name: Rogerio Leong		Sampler's Signature: 



## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000		Date: 09/09/2017
Project Name: Jervis Webb Superfund Site		Field Crew: Rogerio Leong + EPA
Location ID: 5030 Firestone Blvd		Sample ID: 5030 FIRE - IA01-0917
Site ID: Firestone Parcel		Event ID: IA-2017
Sample Location		
Northing:	Easting:	Height: 5' over a ladder
Sampling System		
Canister Serial No.: 131	Location Sketch: Inside office at NW portion of Bldg. Former small office upgraded to larger space	
Canister Certification Date: 8/25/17		
Canister Leak Check Date: 09/09/17		
Flow Controller Serial No.: 05028		
Sampling Log		
Parameter	Start	Stop
Time	08:30	1528
Canister Pressure (in Hg)	28.5	Ø
Ambient Temperature	80s	90s
Flow Rate (mL/min)	100	100
Weather Conditions: Sunny ~80°F		
Observations and Comments: Pressure at 14 at noon		
Laboratory Analytical Method(s): TO-15 SIM VOCs		
Sampler's Printed Name: Rogerio Leong		Sampler's Signature:





## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000	Date: 09/09/2017
Project Name: Jervis Webb Superfund Site	Field Crew: Rogerio Leong + EPA
Location ID: 5030 FIRESTONE BLVD.	Sample ID: 5030FIRE-IA02-0917
Site ID:	Event ID: IA-2017

## Sample Location

Northing:	Easting:	Height: ~2'
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## Sampling System

Canister Serial No.: 762	Location Sketch: inside man's restroom set over a trash basket
Canister Certification Date: 08/24/2017	
Canister Leak Check Date: 09/09/2017	
Flow Controller Serial No.: 05215	

## Sampling Log

Parameter	Start	Stop
Time	08:40	1530
Canister Pressure (in Hg)	26.0	0.5
Ambient Temperature	80s	90s
Flow Rate (mL/min)	100	100

Weather Conditions:

Sunny ~ 80s F

Observations and Comments:

Pressure at 14 at noon

Laboratory Analytical Method(s):

TO-15 VOCs SIM

Sampler's Printed Name:

Rogerio Leong

Sampler's Signature:



## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000		Date: 09/09/2017
Project Name: Jervis Webb Superfund Site		Field Crew: Rogerio Leong + EPA
Location ID: 5030 FIRESTONE BLVD.		Sample ID: 5030 FIRE-IA03-0917
Site ID:		Event ID: IA-2017
Sample Location		
Northing:	Easting:	Height: 2'
Sampling System		
Canister Serial No.: 125	Location Sketch: inside office Eastern side Warehouse, set over a chair	
Canister Certification Date: 08/25/2017		
Canister Leak Check Date: 09/09/2017		
Flow Controller Serial No.: 05015		
Sampling Log		
Parameter	Start	Stop
Time	8:42	1531
Canister Pressure (in Hg)	26.0	Ø
Ambient Temperature		
Flow Rate (mL/min)		
Weather Conditions: Sunny 80°F.		
Observations and Comments: Pressure at 12 at noon		
Laboratory Analytical Method(s): TO-15 SIM		
Sampler's Printed Name: Rogerio Leong		Sampler's Signature:



## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000		Date: 09/09/2017
Project Name: Jervis Webb Superfund Site		Field Crew: Rogerio Leong + EPA
Location ID: 5030 FIRESTONE BLVD		Sample ID: 5030 FIRE - IA 04 - 0917
Site ID:		Event ID: IA - 2017
Sample Location		
Northing:	Easting:	Height: 4'
Sampling System		
Canister Serial No.: 115	Location Sketch: Main office inside Warehouse Set on Desk Height	
Canister Certification Date:		
Canister Leak Check Date:		
Flow Controller Serial No.: 05213		
Sampling Log		
Parameter	Start	Stop
Time	08:34	1526
Canister Pressure (in Hg)	29.0	2
Ambient Temperature	80s	90s
Flow Rate (mL/min)	100	100
Weather Conditions: Sunny 80s F		
Observations and Comments: Pressure at 16 at noon		
Laboratory Analytical Method(s): TO-15 SIM VOCs		
Sampler's Printed Name: Rogerio Leong		Sampler's Signature: 





## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000		Date: 09/10/2017
Project Name: Jervis Webb Superfund Site		Field Crew: Rogerio Leong + EPA
Location ID: Main office		Sample ID: 9301RAY0-IA01-0917
Site ID:		Event ID: IA-2017
Sample Location		
Northings: N/A	Easting: N/A	Height: 4'
Sampling System		
Canister Serial No.: 123	Location Sketch: set at Desk height Receptionist's desk Main office	
Canister Certification Date: 08/24/2017		
Canister Leak Check Date: 09/10/2017		
Flow Controller Serial No.: 05046		
Sampling Log		
Parameter	Start	Stop
Time	0807	1400
Canister Pressure (in Hg)	28.5	1.0 <sup>in</sup> 0
Ambient Temperature	80-90s	90s
Flow Rate (mL/min)	100	100
Weather Conditions: Sunny		
Observations and Comments: 11:00 @ 13 in Hg		
Laboratory Analytical Method(s): TO-15 VOCs SIM		
Sampler's Printed Name: Rogerio Leong		Sampler's Signature:



## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000	Date: 09/10/2017
Project Name: Jervis Webb Superfund Site	Field Crew: Rogerio Leong + EPA
Location ID: Reliable Steel	Sample ID: 9301RAY0-IA02-0917
Site ID:	Event ID: IA-2017

## Sample Location

Northing:	Easting:	Height: 5'
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## Sampling System

Canister Serial No.: 119	Location Sketch: Office Hallway by an exposed piping inside wall!
Canister Certification Date: 08/24/2017	
Canister Leak Check Date: 09/10/2017	
Flow Controller Serial No.: 05024	

## Sampling Log

Parameter	Start	Stop
Time	0809	1403
Canister Pressure (in Hg)	30	1.0
Ambient Temperature	80s	90s
Flow Rate (mL/min)	100	100

Weather Conditions: Sunny
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Observations and Comments: 11:00 @ 15
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Laboratory Analytical Method(s): TO-15 VOCs SEM
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Sampler's Printed Name: Rogerio Leong	Sampler's Signature: 
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## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000	Date: 09/10/2017
Project Name: Jervis Webb Superfund Site	Field Crew: Rogerio Leong + EPA
Location ID: Reliable Steel	Sample ID: 9301RAY0-IA03-0917
Site ID:	Event ID: IA-2017

## Sample Location

Northing: N/A	Easting: N/A	Height: 3'
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## Sampling System

Canister Serial No.: 776	Location Sketch: By the post hole inside warehouse set at 3' height
Canister Certification Date: 08/24/2017	
Canister Leak Check Date: 09/10/2017	
Flow Controller Serial No.: 05017	

## Sampling Log

Parameter	Start	Stop
Time	0814	1407
Canister Pressure (in Hg)	30	7
Ambient Temperature	80s	90s
Flow Rate (mL/min)	100	100

Weather Conditions: Sunny and dry
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Observations and Comments: 11:00 - 20 X
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Laboratory Analytical Method(s): 10-15 VOCs SIM
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Sampler's Printed Name: Rogerio Leong	Sampler's Signature: 
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## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000		Date: 09/10/2017
Project Name: Jervis Webb Superfund Site		Field Crew: Rogerio Leong + EPA
Location ID: Reliable Steel		Sample ID: 93012AY0-IA04-0917
Site ID:		Event ID: IA-2017
Sample Location		
Northing: N/A	Easting: N/A	Height: 4'
Sampling System		
Canister Serial No.: 24L	Location Sketch: Set on table inside a trailer Parked inside warehouse	
Canister Certification Date: 08/24/2017		
Canister Leak Check Date: 09/10/2017		
Flow Controller Serial No.: 05214		
Sampling Log		
Parameter	Start	Stop
Time	0818	1405
Canister Pressure (in Hg)	26.5	0
Ambient Temperature	80s	90s
Flow Rate (mL/min)	100	100
Weather Conditions: Sunny 80s		
Observations and Comments: 11:00 @ 15		
Laboratory Analytical Method(s): VOCs TO-15 (SIM)		
Sampler's Printed Name: Rogerio Leong		Sampler's Signature: 



## SUMMA Canister Ambient Sample Collection Log

Project No./Task Code: J163007200 / F103000		Date: 09/10/2017
Project Name: Jervis Webb Superfund Site		Field Crew: Rogerio Leong + EPA
Location ID: Reliable Steel		Sample ID: 9301RAY0-0A01-0917
Site ID:		Event ID: IA-2017
Sample Location		
Northing:	Easting:	Height: 4'
Sampling System		
Canister Serial No.: 109 L	Location Sketch: Outside Front Window of Reliable Steel Office	
Canister Certification Date: 08/25/2017		
Canister Leak Check Date: 09/10/2017		
Flow Controller Serial No.: 05206		
Sampling Log		
Parameter	Start	Stop
Time	0828	1248
Canister Pressure (in Hg)	17	1
Ambient Temperature	80s	90s
Flow Rate (mL/min)	100	100
Weather Conditions: Sunny / 80s		
Observations and Comments: last canister with low vacuum pressure 17 None available to be used @ 11:00 @ 7 in the		
Laboratory Analytical Method(s): TO-15 VOCs SIM		
Sampler's Printed Name: Rogerio Leong		Sampler's Signature:

# EPA Region 9 Laboratory

## Canister Shipment Report

### Instructions to Samplers:

The canisters listed below are provided per your request. Please note the following conditions for their use:

- Do not mark or attach adhesive labels to the canisters or the canister box.
- Record sample identification on one side of the supplied wire labels. Please leave one side of the sample tag blank for laboratory use.
- Please return all enclosed canister fittings and devices with the canisters. Note that these devices are designed for a single use.
- Return all canisters 30 days after receipt, even if not used. Contact the Region 9 Laboratory for replacement canisters if needed.
- Identify any canisters or devices that are damaged or contaminated.
- Include a copy of this Shipment Report with the return shipment.

Canister	Type	Status*	Cert. Date	Cert. File
24L	6L Low	Certified Clean	8/24/2017	082417MA13
109L	6L Low	Certified Clean	8/25/2017	082517MA16
110	6L Low	Certified Clean	8/24/2017	082417MA14
113	6L Low	Certified Clean	8/24/2017	082417MA15
115	6L Low	Certified Clean	8/25/2017	082517MA17
119	6L Low	Certified Clean	8/24/2017	082417MA16
123	6L Low	Certified Clean	8/24/2017	082417MA17
125	6L Low	Certified Clean	8/25/2017	082517MA18
128	6L Low	Certified Clean	8/24/2017	082417MA18
131	6L Low	Certified Clean	8/25/2017	082517MA19
135	6L Low	Certified Clean	8/24/2017	082417MA19
450	6L Low	Certified Clean	8/25/2017	082517MA20
762	6L Low	Certified Clean	8/24/2017	082417MA20
776	6L Low	Certified Clean	8/24/2017	082417MA21
5715	6L Low	Certified Clean	8/24/2017	082417MA22

6L - 8 hrs  
6,000  
L66

TD15-SIM + NAPH, 1122A, 1122PCA certified

11/10/2017

\*Canisters individually certified are shown as Certified. Canisters certified in batches are shown as Batch Certified



# EPA Region 9 Laboratory

## Canister Shipment Report

### Instructions to Samplers:

The canisters listed below are provided per your request. Please note the following conditions for their use:

- Do not mark or attach adhesive labels to the canisters or the canister box.
- Record sample identification on one side of the supplied wire labels. Please leave one side of the sample tag blank for laboratory use.
- Please return all enclosed canister fittings and devices with the canisters. Note that these devices are designed for a single use.
- Return all canisters 30 days after receipt, even if not used. Contact the Region 9 Laboratory for replacement canisters if needed.
- Identify any canisters or devices that are damaged or contaminated.
- Include a copy of this Shipment Report with the return shipment.

Canister	Type	Status*	Cert. Date	Cert. File
FC5013	»w Control	In Field		
FC5015	»w Control	In Field		
FC5017	»w Control	In Field		
FC5020	»w Control	In Field		
FC5021	»w Control	In Field		
FC5024	»w Control	In Field		
FC5028	»w Control	In Field		
FC5031	»w Control	In Field		
FC5033	»w Control	In Field		
FC5034	»w Control	In Field		
FC5046	»w Control	In Field		
FC5206	»w Control	In Field		
FC5213	»w Control	In Field		
FC5214	»w Control	In Field		
FC5215	»w Control	In Field		

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*\*Canisters individually certified are shown as Certified. Canisters certified in batches are shown as Batch Certified*

9001 Rayo

West building ~ 7,000 square feet



The main part of this building is a large warehouse space used for storage. The northern portion of the building, facing Firestone Blvd., is a small office with several office spaces, two restrooms and an attached vault that is built out into the warehouse space. The office space is used to store residential items belonging to the business owner. The office space has some leaks in to roof that were evident from the previous day's rain.

### **Ventilation**

The warehouse has significant passive ventilation, it is not well insulated and there are open and broken windows.

The office space is not well ventilated, does not have an operating ventilation system, and a strong sewer/mildew odor was present.

### **Pathways**

There are several potential pathways through the slab in the warehouse area including current and former plumbing conduits. There are also several penetrations in the electrical closet, located in the northwest portion of the warehouse space.

The office space had two restrooms that were being used for storage. The fixtures were still in place and the traps appeared to be dry. It is likely that these are a source of sewer vapor entry. No other significant pathways were observed.

#### **Chemicals**

No chemical usage or storage was observed in this building.

#### **Sample Locations**

One ambient air sample should be centrally collected from the office space to determine the potential for vapor intrusion into this area.

One to two samples could be collected in the warehouse area, near the potential subsurface pathways.

#### **Center building ~ 2,000 square feet**

The small central building on this property is used as a machine/repair shop for truck and trailer parts. It consists of two workshop areas, a parts storage area, and an office that is accessed from the central workshop area.

#### **Ventilation**

The workshops spaces have significant passive ventilation. The office is poorly ventilated when the door connecting it to the central work area is closed.

#### **Pathways**

No pathways were noted.

#### **Chemicals**

A significant number of chemicals are used in the workshop areas. No chlorinated chemicals were observed, but a full chemical inventory was not conducted.

#### **Sample Locations**

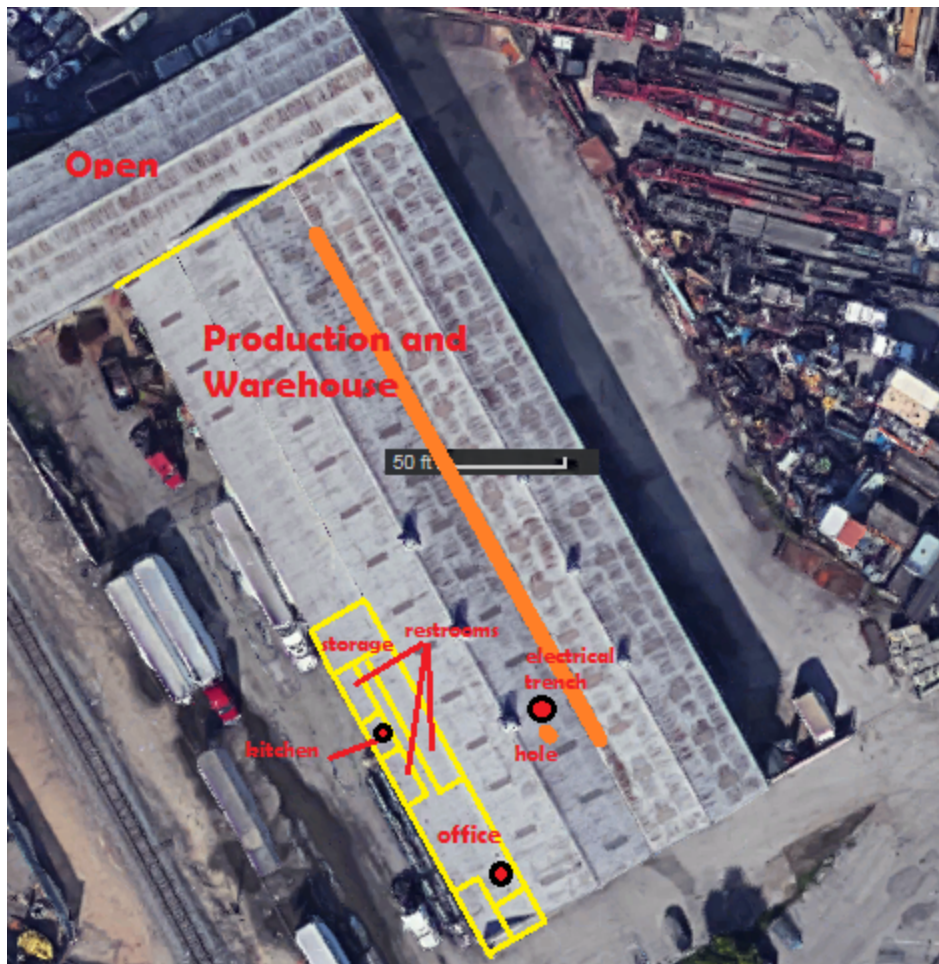
If this building is sampled it is recommended that a sample be collected in the office area. Preferably the sample should be collected with the door closed.

#### **9301 Rayo ~30,000 square feet**

This building consists of a large warehouse and production area and a small office area in the southwest corner of the building. The production operations in this building is mainly cutting and folding metal.

The office space consists of one office, a reception area, an office/cubical area, two restrooms, and a kitchen area. There is also a men's restroom/locker room area that opens to the warehouse space. All the plumbing in these spaces was in the process of being upgraded and sheet rock had been removed.





## Ventilation

The warehouse space has significant passive ventilation due to the building construction and the warehouse doors being kept open.

The office space has one HVAC system that does not provide outdoor air and is programmed to come on if demanded.

## Pathways

There were significant exposed plumbing pathways in the office area. Based on a PID reading, there appeared to be vapors from the subsurface coming in from around the exposed drain in the kitchen area.

In the warehouse there is an electrical trench that runs down the center of the building to the electrical hook-ups in the southern/central portion of the building. There are also several posts in this area that penetrate the slab and a hole where a post was removed. Vapor intrusion was evident in from the hole where the post had been removed.



This is also an area of the warehouse where there is less passive ventilation due to it being between a parked recreational trailer and the electrical panels.



### **Chemicals**

The primary chemicals used are lubricating and cutting oils. There is also a large dewar of liquid oxygen that is used by some of the cutting and welding tools. No chlorinated chemicals were observed.

### **Sample Locations**

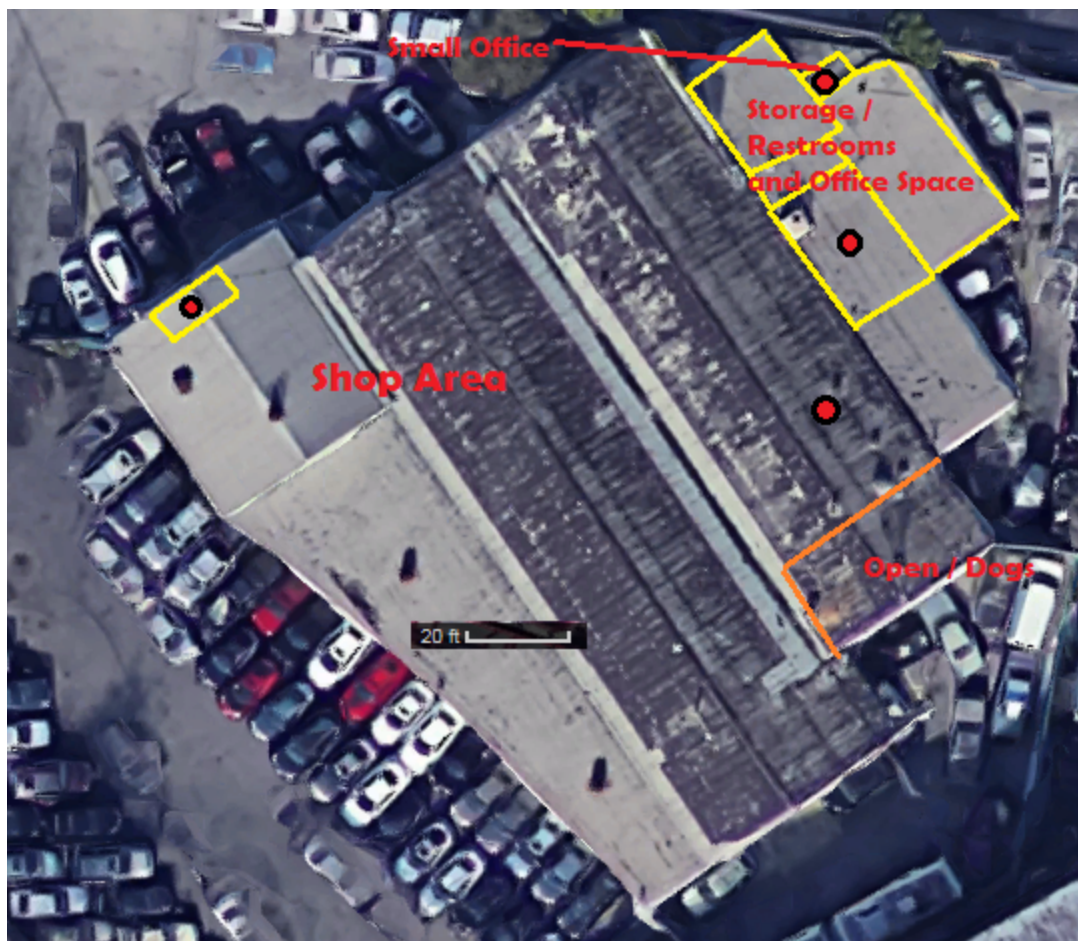
Two samples should be collected in the office area. One in the kitchen area near the plumbing penetrations and one in the cubical space.

One sample should be collected in the warehouse near the electrical panels and hole in the slab. An additional pathway sample could be collected from inside the hole in the slab.

### **5030 Firestone ~ 15,000 square feet**

This building consists of a large open shop area used to store cars and to do auto body repair and painting. Some of the doors have been removed or are not used so that the building is partially open. There is one enclosed office area inside the shop in the northwest corner. There are several additions to the shop on the northeast corner that include enclosed restrooms, storage space, and office space. There is also a small exterior office in this area.





### **Ventilation**

The shop area is partially open to the outside providing significant passive ventilation. The enclosed spaces inside and attached to the shop area are poorly ventilated.

### **Pathways**

No significant pathways were observed.

### **Chemicals**

Paints and cleaners were present in the shop area; no chlorinated solvents were observed.

### **Sample Locations**

The small office at the northeast corner of the building is continuously occupied during business hours and poorly ventilated, it should be a priority for sample collection.

One or two samples should be collected in the enclosed office and storage spaces on the east side of the building.

One sample should be collected inside the office in the northwest portion of the building.



If a sample is collected inside the shop area it should be collected from the eastern portion of the building where there is less passive ventilation.